



DEPARTMENT OF THE NAVY  
USS PROTEUS AS-19  
FPO SAN FRANCISCO 96646-2575

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From: Commanding Officer, USS PROTEUS (AS 19)  
To: Director of Naval History (OP-09B9), Washington Navy Yard,  
Washington, DC 20390  
  
Subj: USS PROTEUS (AS 19) COMMAND HISTORY FOR CALENDAR YEAR 1985 (OPNAV REPORT  
5750-1)  
  
Ref: (a) OPNAVINST 5750.12C  
  
Encl: (1) USS PROTEUS Command History for Calendar Year 1985  
  
1. In accordance with reference (a), enclosure (1) is forwarded.

  
M. A. OLIVER III

Copy to:  
CINCPACFLT  
COMSUBPAC

## DEPARTMENT BRIEFS

1. Captain H. A. Oliver III is Commanding Officer, USS PROTEUS (AS 19).
2. The average on board count for this reporting period has been 50 officers and 983 enlisted personnel.
3. Operations Department

The following significant events occurred during 1985 in the Communications Division.

- |        |   |
|--------|---|
| 1 Jan  | - Commenced new year with communications guard for SUBREFIT Site, Guam, COMSUBGRU SEVEN Rep Guam, and USS SARGO |
| 13 Jan | - Dropped communications guard for USS SARGO  |
| 14 Jan | - CMS Assist visit from NAVSECGRUDET, Guam  |
| 15 Jan | - Dropped USS PROTEUS Guard to NTCC Nimitz Hill, Guam for USS PROTEUS Incremental Overhaul                      |
| 4 Jun  | - Assumed communications guard for USS NEW YORK CITY  |
| 14 Jun | - Dropped communications guard for USS NEW YORK CITY  |
| 15 Jun | - Reassumed communications guard for Nimitz Hill, Guam  |
| 19 Jun | - CMS Assist visit from NAVSECGRUDET, Guam  |
| 25 Jun | - Communications Readiness Evaluation (Admin) held  |
| 22 Jul | - Shifted communications guard for SUBREFIT Site, Guam to NTCC Nimitz Hill, Guam                                |
| 23 Jul | - Underway for deployment   |
| 2 Aug  | - Arrive Subic Bay, Philippines   |
| 17 Aug | - Depart Subic Bay, Philippines   |
| 20 Aug | - Arrive Hong Kong  |
| 25 Aug | - Depart Hong Kong  |
| 31 Aug | - Arrive Guam; reassume guard for SUBREFIT Site, Guam   |
| 4 Sep  | - Assumed guard for USS PORTSMOUTH  |
| 23 Sep | - Communications Readiness Evaluation held by COMSUBGRU SEVEN, grade received: 99%                              |

- 24 Sep - Dropped communications guard for USS PORTSMOUTH
- 19 Oct - Assumed communications guard for USS BARB and USS BIRMINGHAM
- 6 Nov - Dropped communications guard for USS BARB and USS BIRMINGHAM
- 8 Nov - Assumed communications guard for USS TAUTOG
- 16 Nov - Dropped communications guard for USS TAUTOG
- 22 Dec - Assumed communications guard for USS SARGO

The following significant events occurred in the Navigation Division and for the ship during 1985.

- 1 Jan - In port Apra Harbor, Guam, pier Alpha
- 15 Jan - Entered AFDM-8, commenced first phase of incremental overhaul
- 12 Apr - Shifted berth to SRF, Guam, pier Lima
- 12-17 Jun - Commodore D. R. Oliver, COMSUBGRU SEVEN, visited USS PROTEUS
- 21 Jun - Dock-trials/Fast-cruise
- 22 Jun - Underway sea trials
- 24 Jun - Moored Apra Harbor, Guam, pier Alpha
- 15 Jul - Completed first phase of incremental overhaul
- 23 Jul - Underway to Subic Bay, P.I.
- 2 Aug - Anchored Subic Bay, P.I. C-21
- 3 Aug - Shifted to Rivera Wharf
- 17 Aug - Underway to Hong Kong, B. C. C.
- 20 Aug - Moored Hong Kong, B. C. C. RN Buoy #2
- 25 Aug - Underway to Apra Harbor, Guam
- 31 Aug - Med-Moored Apra Harbor, Guam, Wharf Alpha. Rear Admiral Hoffman, COMNAVMARIANAS, greeted the ship
- 24 Oct - Rear Admiral H. Webster, COMNAVSURFGRU WESTPAC, paid call on Commanding Officer
- 5-14 Nov - Captain H. W. Habermeyer, COMSUBGRU SEVEN, visited PROTEUS
- 7 Dec - Underway, Dependent's Day Cruise
- 7 Dec - Med-Moored Apra Harbor, Guam, pier Alpha

The following significant events occurred during 1985 in the Electronics (OE01) Division.

15 Jan	- Commenced Incremental Overhaul at SRF, Guam
20 Jan	- Completed preoverhaul ship check
28 Jan	- Commenced rip-out of AN/URC-9 and AN/SRC-20 transceiver equipment
3 Feb	- Commenced rip-out of AN/SRA-12 Antenna Patch Panel
	- Commenced grooming and ringout of SB-1203/SB-1210/SB-863/SB-973 Switching and Patch Panels
20 Feb	- Commenced installation of CA-1100 HF Multi-Coupler Patch Panel
	- Completed rip-out of AN/URC-9 and AN/SRC-20 transceiver equipment
24 Feb	- Commenced installation of UHF Dama Communications Package
27 Feb	- Completed rip-out of AN/SRA-12 Antenna Patch Panel
3 Mar	- Commenced installation of AN/SRA-49 HF Receive Multi-Coupler
	- Commenced installation of AN/WSC-3V(6) Line of Sight Transceivers
12 Mar	- Commenced installation of MK X11 IFF
	- Commenced installation of AN/SPA-25E in CIC and Pilot House
28 Mar	- Completed installation of CA-1100 HF XMTR Multi-Coupler Patch Panel
29 Mar	- Completed testing CA-1100
16 Apr	- Commenced installation of Nonsecure Teletype System
20 May	- Completed installation of MK X11 IFF
28 May	- Completed installation of AN/WSC-3V(6) Line of Sight Transceivers
3 Jun	- Completed installation of AN/SPA-25E in CIC and Pilot House
8 Jun	- Completed installation of AN/SRA-49 Receiver Multi-Coupler
12 Jun	- Completed testing of AN/SRA-49 HF Receiver Multi-Coupler
17 Jun	- Completed testing of AN/SPA-25E Radar Repeater System
23 Jun	- Completed installation of UHF Dama Communications System
29 Jun	- Completed installation of Nonsecure Teletype System
30 Jun	- Completed testing of Nonsecure Teletype System
6 Jul	- Completed testing of AN/WSC-3V(6) Line of Sight Transceivers
8 Jul	- Completed testing of MK X11 IFF
11 Jul	- Completed testing of UHF Dama System



16 Jul - Commenced Post Overhaul EMI Inspection  
 - Completed Visual Tempest Inspection

20 Jul - Completed Post Overhaul EMI Inspection

23 Jul - Deployed to P.I and Hong Kong

31 Aug - Returned from deployment

20 Sep - Instrumented Tempest Inspection completed

27 Sep - Field Change Installation project completed by NAVELEX, San Diego, CA

24 Oct - Final approval by Commanding Officer for the establishment of OE01, OE Division

#### 4. Repair Department

##### REPAIR DEPARTMENT PRODUCTIVITY INDEX FOR CY 1985

<u>MONTH</u>	<u>PRODUCTION MAN-HOURS AVAILABLE</u>	<u>PRODUCTION MAN-HOURS EXPENDED</u>	<u>PRODUCTION INDEX</u>
January	31,774	20,396	.626
February	29,096	17,342	.596
March	31,128	16,539	.531
April	32,096	20,042	.635
May	32,832	19,932	.607
June	30,456	23,145	.759
July	22,984	14,539	.632
August	16,712	21,296	1.274
September	36,160	27,953	.592
October	36,160	27,953	.773
November	32,536	34,040	1.046
December	40,872	22,968	.561
Total	372,806	266,145	.719

NOTE: INDEX GREATER THAN ONE REFLECTS SHIFTWORK AND A LOW PRODUCTION WORK FORCE TO ACCOMPLISH REPAIRS. PROTEUS CONTINUALLY SUPPORTS SSN'S, SURFACE COMBATANTS, MSC AND SERVICE CRAFT WHILE DEPLOYED AS WELL AS WHILE IN GUAM. A SUMMARY OF REFITS AND SIGNIFICANT JOBS ACCOMPLISHED ARE AS FOLLOWS:

<u>TENDED UNIT</u>	<u>AVAILABILITY DATES</u>	<u>TOTAL JOBS</u>	<u>MAN-HOURS EXPENDED</u>
YTB/NAVSTA Guam	26NOV84 - 31JAN85	28	1,527
AFS 4	9DEC84 - 9JAN85	45	2,228
CSG 7	19DEC84 - 15JUL85	59	4,019
SSN 648	24DEC84 - 2JAN85	144	6,487
AS 19	15JAN85 - 15JUL85	967	90,876
SSN 603	26MAR85 - 5APR85	17	368
WLB 388	28MAR85 - 15APR85	3	98
AFS 7	15APR85 - 14JUN85	60	2,478
AFS 3	15MAY85 - 15JUL85	97	2,329
SSN 696	4JUN85 - 14JUN85	21	132
SSN 680	6JUN85 - 16JUN85	198	3,818
SSN 699	6JUN85 - 20JUL85	54	869
SSN 578	10JUN85 - 15JUN85	72	1,759
SSN 661	1AUG85 - 22AUG85	20	373
DDG 8	4AUG85 - 14AUG85	19	166
FFG 33	4AUG85 - 14AUG85	27	332
LST 1186	5AUG85 - 12AUG85	39	1,287
LHA 5	5AUG85 - 12AUG85	27	467
NAVSTA Subic Bay	5AUG85 - 15AUG85	32	506
SSN 666	6AUG85 - 15AUG85	101	1,730
SSN 715	10AUG85 - 15AUG85	63	792
SSN 707	5SEP85 - 27SEP85	169	7,897
WLB 388	16SEP85 - 27SEP85	38	1,385
WPB 306	30SEP85 - 11OCT85	16	190
AFS 4	7OCT85 - 22NOV85	107	2,316
SSN 596	19OCT85 - 6NOV85	250	12,053
SSN 695	19OCT85 - 13DEC85	97	15,585

<u>TENDED UNIT</u>	<u>AVAILABILITY DATES</u>	<u>TOTAL JOBS</u>	<u>MAN HOURS EXPENDED</u>
SSN 715	4NOV85 - 10NOV85	73	101
SSN 639	8NOV85 - 16NOV85	119	2,059
SSN 672	12DEC85 - 31DEC85	55	1,867
SSN 583	19DEC85 - 4JAN86	203	5,062

#### SIGNIFICANT JOBS ACCOMPLISHED ON TENDED UNITS

##### YTB/NAVSTA Guam

1. Overhauled air compressor
2. Repaired bilge valves
3. Repaired refrigerator
4. Repaired hatches
5. Repaired oil heat exchange

##### USS WHITE PLAINS (AFS 4)

1. Rebuilt distillate pump
2. Repaired hot water heater valves

##### USS ASPRO SSN (648)

1. Replaced CAMS A-5 module
2. Repaired two high pressure drains
3. Repaired SINS MK3 MOD 4
4. Repaired cracks in fairwater plane
5. Repaired AS-1 and AS-2
6. Set RPFW reliefs
7. Repaired cesium beam time standards
8. Repaired C-179 and C-180 (three way check valves)
9. Repaired a BLA-4

##### COMSUBGRU SEVEN Rep Guam

1. Overhauled LCM-6 dive boat
2. Overhauled 40 and 50 ft USS PROTEUS (AS 19) utility boats
3. Repaired/Replaced 728 valves
4. Overhauled three F/F pumps
5. Replaced SAS cables
6. Refurbished CFC/MFC controllers
7. Upgraded lighting in various supply storerooms
8. Polished commutators on all main motors/generators
9. Replaced ovens in galley
10. Replaced metal lifelines
11. Accomplished A & I on overboard discharge line
12. Replaced S/N bleed lines on main engines
13. Installed ammunition lockers
14. Repaired helo and boat decks
15. Renovated/soundproofed CCTV
16. Refurbished all radioactive liquid waste tanks

USS SAN JOSE (AFS 7)

1. Repaired steering unit
2. Repaired main boiler
3. Repaired 400HZ servo power
4. Repaired FOSP Regulator
5. Repaired inhaul/outhaul winches

USS NIAGARA FALLS (AFS 3)

1. Replaced sampler cooler C/O valve
2. Replaced nine potable water system valves
3. Repaired main condenser suction valves
4. Manufactured strainer baskets with magnets
5. Repaired three submersible pumps
6. Calibrated 16 TLI meters
7. Repaired in-line desuperheater
8. Repaired discharge valves for FOSP 1 and 2

USS NEW YORK (SSN 696)

1. Replaced MBT vent covers
2. Cleaned and inspected MBT's
3. Manufactured stem and disk assy for diesel exhaust
4. Performed sound analysis on Numbers 1 and 2 seawater pumps
5. Conducted control surface operational test on rudder
6. Inspected propeller
7. Conducted shaft runout readings
8. Conducted underwater hull survey

USS BATES (SSN 680)

1. Replaced hydraulic fittings on TD-1
2. Repaired AS-3 and AS-5
3. Repaired TD-36
4. Calibrated various electrical/electronic instruments

USS JACKSONVILLE (SSN 699)

1. Overhauled drain pump
2. Repaired No. 2 MSW pump mechanical seal
3. Rebrazed SD-21
4. Repaired CH-20
5. Inspected main engine bearings
6. Refinished bonnet on AS-1
7. Rebuilt TD-62
8. Overhauled CL-5

USS LAPON (SSN 661)

1. Replaced trash disposal unit muzzle valve
2. Repaired main engine throttles
3. Repaired MASE muzzle valve

USS SKATE, (SSN 578)

1. Repaired diesel generator injector
2. Manufactured three flex hoses
3. Replaced wooden deck on bridge
4. Repaired AN/SQS-49
5. Replaced PPI isolation transformer

USS LYNDE MCCORMICK (DDG 8)

1. Repaired No. 1 main engine relief valve
2. Repaired No. 2 HP turbine relief valve
3. Repaired ASROC heating relief valve

USS JARRETT (FFG 33)

1. Repaired MK-46 module torpedo chocks
2. Manufactured torpedo handling equipment
3. Manufactured and installed staple on helo nets

USS PELELIU (LHA 5)

1. Provided printing services
2. Calibrated various electrical/electronic test equipments

NAVSTA Subic Bay

1. Inspected Numbers 1 and 2 diesel on YTB-75
2. Overhauled P-200 pump
3. Overhauled two Jacuzzi pumps
4. Calibrated 12 gauges

USS HAWKBILL (SSN 666)

1. Repaired TDU muzzle ball valve
2. Repaired TD-6 valve hydraulic actuator
3. Replaced lead hydraulic accumulator quad rings
4. Repaired ASW-619 hydraulic actuator lead
5. Overhauled four feed pump discharge risers
6. Repaired stripped bolt holes XC-25 hull insert
7. Repaired MS-11
8. Repaired MASE muzzle valve leakage
9. Overhauled diesel governors
10. Replaced No. 1 chilled water pump motor bearing

USS CAYUGA (LST 1186)

1. Weld repaired open bridge deck
2. Welded debarkation station cleats
3. Manufactured flex hoses for CPP system
4. Repaired dial telephone system

USS BUFFALO (SSN 715)

1. Repaired gyro compass
2. Repaired watertight door
3. Repaired Type 18 periscope training handle

USS PORTSMOUTH (SSN 707)

1. Overhauled VH-2
2. Repaired SA-1
3. Repaired SD-4
4. Repaired HPD-148
5. Repaired AN/BRA-34 antenna
6. Repaired TD-46
7. Repaired propulsion shaft vibration reducer
8. Repaired TD-114
9. Repaired/adjusted HS-155 control valve
10. Replaced lead hydraulic accumulator quad rings

USCG BASSWOOD (WLB 388)

1. Repair of No. 2 hole
2. Repair of fuel and water
3. Repaired depth sounder
4. Repaired peak tank valves

USCG CAPE GEORGE (WPB 366)

1. Repaired emergency tiller arm
2. Welded reel
3. Troubleshoot diesel main engines
4. Installed piping on fresh water tank

USS BARB (SSN 596)

1. Repair of port and starboard main engine throttles
2. Repair of H.P. brine pump
3. Repair of No. 1 starboard torpedo rammer
4. Replacement of starboard T-cold RTD
5. Replacement of duplex strainers
6. Repaired CAMS
7. Repair of stern planes ram
8. Oxygen charge
9. Completed 111 sheetmetal jobs

USS BIRMINGHAM (SSN 695)

1. Overhauled diesel generator
2. Repaired HP-121
3. Overhauled sanitary pump
4. Overhauled Fans 4 and 9
5. Overhauled No. 2 MSW pump
6. Overhauled VH-1
7. Completed repairs on steering and diving accumulator
8. Repaired fairwater planes
9. Overhauled No. 1 and 2 main induction fans

USS TAUTOG (SSN 639)

1. Overhauled HP brine pump
2. Repaired ASW 202/63

3. Repaired ASW 57
4. Repaired aft signal ejector
5. Replaced AN/BRA-34 Ice Cap
6. UT of 14 ASW valves

#### USS PINTADO (SSN 672)

1. Repaired main throttles
2. Repaired HPD 66, 112, 114, 141 and 143
3. Repaired SD 1, 38, 87, 115 and 125
4. Repaired HPD trap
5. Repaired AS-31 and 114
6. Repaired auxiliary seawater valves 256, 532 and 776
7. SGF-52
8. Stoned three SSMG's sliprings

#### USS SARGO (SSN 585)

1. Refurbished HP air system
2. Rebuilt trim pump
3. Repaired air conditioning plants
4. Repaired port ahead throttle and starboard astern throttle

#### TIGER TEAMS DISPATCHED DURING CY-85

DATES		No. OF PERSONNEL	DESTINATION
FROM	TO		
25 Jan 85	31 Jan 85	5	Chinhae, Korea
24 Apr 85	29 Apr 85	3	Yokosuka, Japan
25 Apr 85	30 Apr 85	5	Subic Bay, Philippines
8 May 85	15 Jun 85	1	Chinhae, Korea
18 May 85	25 May 85	5	Subic Bay, Philippines
23 Jun 85	20 Jul 85	45	Diego Garcia
3 Jul 85	12 Jul 85	3	Subic Bay, Philippines
10 Jul 85	12 Jul 85	2	Chinhae, Korea
7 Jul 85	13 Jul 85	8	Chinhae, Korea
19 Jul 85	5 Aug 85	5	Subic Bay, Philippines
2 Aug 85	5 Aug 85	5	Subic Bay, Philippines
16 Aug 85	2 Sep 85	41	Diego Garcia
5 Sep 85	19 Sep 85	3	Yokosuka, Japan
27 Sep 85	6 Oct 85	13	Subic Bay, Philippines

DATES		No. OF PERSONNEL	DESTINATION
FROM	TO		
3 Oct 85	8 Oct 85	3	Diego Garcia, BIOT
18 Oct 85	30 Oct 85	5	Yokosuka, Japan
24 Nov 85	1 Dec 85	10	Subic Bay, Philippines
30 Nov 85	9 Dec 85	2	Subic Bay, Philippines
11 Dec 85	26 Dec 85	23	Yokosuka, Japan
22 Dec 85	30 Dec 85	6	Singapore

#### REPAIR DEPARTMENT

##### R-1 Division (Hull Repair)

- Erected a piping frame for the USO's outdoor cafe
- Supported 16 fly-away teams to tended units
- Manufactured and installed two man overboard J-davits
- Completed major repair to helo flight deck
- Installed four ammo stowage lockers
- Manufactured 11 collapsible shore power cofferdams
- Completed major repairs to submarine access brows and accommodation ladders
- Manufactured and installed ladder guard for the after exhaust stack
- Manufactured and installed piping guards for RLWS piping
- Installed false overhead in medical operating room
- Installed sheetmetal shed over portable O2N2 converter
- Renovated CPO lounge
- Replaced exhaust piping on LCM
- Completed overboard discharge piping relocation alteration
- Assisted in nuclear production mock up for RCPE
- Assisted in repairs to two main engine throttles on tended submarines
- Replaced salt water cooling piping on USS PROTEUS' main engines
- Completed A&I for PROTEUS' boiler feed water system



- Installed piping for two Ameroyal pumps
- Completed replacement of chilled water main insulation
- Provided support for freeze seals on a nuclear production job on a fly away team

#### R-2 Division (Mechanical Repair)

- Renovated Machine Shop, Lock Shop and Engraving Shop
- Expanded and built addition to MIRCS lab to correct a deficiency
- Reestablished electroplating capabilities
- Electroplated saddle and main bearing caps on emergency diesel engine on board USS BIRMINGHAM
- Provided machine shop services to eight surface ships and 12 SSN's
- Repaired/cleaned 60 optical navigational instruments
- Completed over 2500 engraving requests
- Manufactured 1350 duplicate keys
- Made 760 repairs or combination changes to safes and door locks
- Calibrated or repaired over 3000 mechanical instruments
- Completed repairs to 120 time keeping devices and 140 office machines and related equipment

#### R-3 Division (Electrical Repair)

- Replaced and adjusted depth detector on USS BARB
- Replaced and adjusted CAMS on USS BARB
- Assisted in removal and reinstallation of SAS cables on USS PROTEUS
- Replaced DRAI and corrected wiring problem on USS BARB
- Replaced snorkel electrode on USS SKATE
- Replaced and adjusted fairwater planes indicator on USS BIRMINGHAM
- Replaced and adjusted gyro compass MK 19 on USS JACKSONVILLE
- Replaced anchor light on USS JACKSONVILLE
- Adjusted depth and speed indicator on USS PORTSMOUTH

- Adjusted and aligned CAMS on USS PORTSMOUTH
- Replaced and adjusted gyro compass on USS BUFFALO
- Replaced drain pump relay on USS HAWKBILL
- Replaced DRAI on USS PORTSMOUTH
- Replaced auxiliary tank No. 3 pressure transducer on USS PORTSMOUTH
- Performed overhaul on Reader printers for USS SKATE, USS BATES, USS BARB and USS BIRMINGHAM
- Replaced and adjusted MK 19 Gyro compass on USS SARGO
- Replaced and adjusted gyro course repeater on USS SARGO
- Adjusted and aligned Flow meter on USS PORTSMOUTH
- Replaced trim angle indicator on USS BIRMINGHAM
- Replaced diesel generator RTD on USS BARB
- Replaced and adjusted TLI on USS NIAGARA FALLS
- Repaired MR 27 gyro on USCGC BASSWOOD
- Installed Wind speed indicator on USCG CUTTER BASSWOOD
- Installed IMC control station on USS PROTEUS
- Installed General Alarm on USS PROTEUS
- Installed O2N2 exhaust vent alarm on USS PROTEUS
- Installed fire alarm system at BCQ
- Assisted shop 57B in repair of O2N2 plant leak
- Adjusted and aligned fairwater planes on USS PINTADO (Jan 85)
- Reinstalled five SAS cables for USS PROTEUS
- Installed new galley range according to SHIPALT for USS BARB
- Replaced bake oven for USS PROTEUS Bake Shop
- Did class "B" overhaul on five vent motors for USS BIRMINGHAM
- Replaced 300 lighting fixtures in 15 storerooms on USS PROTEUS
- "Tiger Team" shot 13 plugs on USS JACKSONVILLE
- "Tiger Team" epoxy repair shaft seal on USS PINTADO

- "Tiger Team" repaired snorkel ice cap on USS BIRMINGHAM
- Replaced ice cap, AN/BRA-34 on USS TAUTOG

#### R-4 Division (Electronic Repair)

- Assisted in upgrade of USS PROTEUS CCTV system by installing new cabling
- Maintained NAVSTA Guam Port Operations electronic equipment
- Upgraded all shop electronic workbenches to meet required safety criteria
- Participated in three "Tiger Teams" to remote locations to correct electronic casualties and support submarine repairs
- Conducted antenna SQIP training for shop 67H personnel
- Calibrated over 1,200 pieces of general purpose electronic/electrical test equipment
- Repaired over 600 pieces of general purpose electronic/electrical test equipment
- Overhauled over 380 pieces of teletype equipment for USS PROTEUS and tended units

#### R-5 Division (Radiological Controls)

- Completed 78 Nuclear Support Facility work procedures
- Performed one portable effluent tank connection and disconnection
- Performed Leak-off protection connection and disconnection during emergency drydocking of a 688 class submarine
- Successfully completed COMSUBPAC radiological controls training assist in August
- Completed CINCPACFLT RCPE in November with a grade of average
- Completed tank refurbishment on Numbers 1, and 2, and Laundry RLWS tanks
- Supported Radiological Controls during repairs on 10 submarines
- Supported Radiological Controls during "Tiger Team" on USS JACKSONVILLE
- Restored capability of contaminated laundry facility

#### R-6 Division (Repair Services)

- Rigged vibration reducer cover to facilitate repairs on board USS PORTSMOUTH

- Installed terrazzo decks in ship's laundry and 21 man head
- Completely refurbished approximately 100 sq/ft of overhead panels
- Reupholstered entire crew's mess decks
- Manufactured seven MK 48 torpedo covers
- Took up and installed over 1500 sq/ft of tile which included all engineering spaces on board USS BARB
- Provided diver services for TDU ball and seat replacement on USS HAWKBILL
- Manufactured a 200 sq/ft fan tail awning
- Manufactured two 150 sq/ft boat covers
- Manufactured two 100 sq/ft bridge wing awnings
- Cast four end bell covers for USCG BASSWOOD
- Rigged out trim pump MTR on board USS SARGO
- Manufactured a sail loft on the pier to support USS PROTEUS
- Manufactured copper-nickel flanges for USS PROTEUS AC and R plant
- Cast eight jacking gears for USS PROTEUS
- Cast main lube oil pump discharge manifold for USS PROTEUS SAS diesel generator
- Manufactured boat davit brake shoes
- Rigged the emergency diesel engine including all interference.

#### R-7 Division (Planning and Estimating)

- Procured TELFAX terminal for transferring hardcopy reference materials via phone lines in support of tended submarine, surface ship, and USS PROTEUS repair evolutions. Subsequent to installation unit has been utilized extensively. Capability upgrade beneficial to the command as a whole.
- Procured two replacement 3M reader/printer reference viewers. Existing units were beyond service life and were no longer economical to repair. Down time was frequent and poor quality reproductions were common. These problems have been rectified with arrival of new units.
- Installed and implemented the Fortune/Sammis computer terminal interface system for direct on-line review and maintenance of the COMSUBPAC S/A and A&I Program. Allows real time data manipulation in regards to tended vessel S/A and A&I accomplishment and research.
- Completely reorganized and inventoried the Repair Department Technical Library (10C). This continuing project has reflected a significant savings in man-hours expended in the research of planned task reference materials.

- Procured cartridge based set of Mil-Specs, Mil-Standards, and Fed-Specs for utilization by Repair Department Divisions as well as the Planning and Estimating branch.
- Initiated action to procure complete set of AFS-7 class drawings in microfiche format to provide detailed reference drawings for maintenance support of these vessels.
- Assigned responsibility of monitoring all Repair Department ROV expenditures. Resulted in the more efficient processing of subject requisitions and easier tracking of document status.
- Installed modifications to workcenter air conditioning system to provide a more controlled and workable climate within divisional work areas.
- Implemented an aggressive training program tailored toward upgrading the knowledge and effectiveness of planning and estimating personnel.

#### R-8 Division (Quality Assurance)

- Passed two COMSUBPAC QA Audits in 1985: surprise QA Audit in June 1985 and annual QA Audit Oct-Nov 1985.
- Refurbished QA Office.
- Implemented new COMSUBPACINST 4855.1 throughout IMA.
- Conducted three QA Audits on three tended units.
- Conducted QAI/CMPO training on two tended units.
- Supported nine "Tiger Teams" on deployed SSNs throughout WESTPAC and the Indian Ocean.
- NDT performance was measurably improved with the upgrade of level knowledge as the result of implementation of an NDT training program.
- All NDT operating and inspection procedures were updated and rewritten.
- The ability of NDT to perform its mission was significantly upgraded with the purchase of several new pieces of shop equipment.
- Supported nine "Tiger Teams" on deployed SSNs throughout WESTPAC and the Indian Ocean.
- NDT performance was measurably improved with the upgrade of level knowledge as the result of implementation of an NDT training program.
- All NDT operating and inspection procedures were updated and rewritten.
- The ability of NDT to perform its mission was significantly upgraded with the purchase of several new pieces of shop equipment.

#### R-9 Division (Outside Machinery)

- Repaired oil leaks and vibration reducer on board USS PORTSMOUTH
- Overhauled emergency diesel engine on board USS BIRMINGHAM
- Replaced new drain pump on board USS JACKSONVILLE
- Rebuilt main shaft seal on board USS PINTADO
- Replaced seats, poppets on both main engine throttles on board USS BARB
- Lapped astern port main engine throttle on USS BARB
- Replaced seats, poppets main engine ahead port throttle on board USS SARGO
- Replaced TDU ball and seats on board USS HAWKBILL
- Replaced TDU ball and seats and lapped port main engine ahead throttle on board USS LAPON

#### R-T Division (Tender Maintenance)

- During the USS PROTEUS overhaul, replaced numerous watertight fittings throughout the ship
- Removed and replaced LCM-8's driver's house
- Replaced all lifelines on USS PROTEUS 01 and 02 levels and main deck
- Refurbished both the R-3 and S-1 heads
- Replaced sheet metal shielding on tended units
- Manufactured new stock rack for the Machine Shop
- Built and manufactured a tool locker and tool issue room in the R-T Shop

### 5. Weapons Repair Department

#### W-1 Division

- Completed overall preservation of all magazines and ordnance spaces during Incremental Overhaul
- Assisted Ship Repair Facility in the complete installation and testing of the overhead traveling crane
- Chipped, primed, and painted the gantry, trolley and overhead traveling crane
- On loaded entire ships allowance of ammunition (35,000 lbs) after overhaul

- Conducted 26 MK 48 Torpedo transfers/receipts
- Completed the following lifts with the overhead traveling crane
  - 496 general cargo
  - 16 ordnance
  - 16 radioactive materials
  - 102 weight testing
- Provided crane support services to tended units
- Completed HARPOON Team training and certification
- Completed Torpedo Mounted Dispenser Team training
- Completed Shipboard Explosive Safety Inspection (SESI)
- Conducted eight departmental OTTO Fuel II spill drills
- Provided system operational troubleshooting assist of the Modified After Signal Ejector (MASE) for USS BATES
- Conducted gun crew training and open ocean firing of the 20 MM, 50 caliber, and 40 MM machine guns
- Conducted small arms training (ahsore) for the following
  - 127 .45 caliber pistol
  - 43 12 guage riot shotgun
- The following in rate schools were completed

<u>SCHOOL</u>	<u>No. of personnel completing</u>
- Gun and Ammunition Safety	1
- Magazine Sprinkler System Operation	3
- Gunnery Petty Officer	1
- Torpedo Tube MK 63 Operation and Maintenance	2
- Torpedo MK 48 Basic Maintenance	2
- Miniature Electronic Repair	3
- Two personnel qualified as Small Arms Rangemasters	

#### W-2 Division (Fire Control)

- Repaired and provided technical assistance to tended units.
  - One Central Signal Data Converter (CSDC)
  - Two MK 116 Bearing and Range Indicators (BRI)
  - One Modified After Signal Ejector (MASE) electronic unit
  - One HARPOON Simulator
  - One Type 18 Target Bearing Transmitter (TBT)
  - One Mother Board for USS PROTEUS' Telephone System
  - One Digital Multimeter
  - One AN/UGC 136
- Conducted classroom and range training for small arms
  - .45 caliber pistol; four sessions, 141 personnel
  - 12 guage shotgun; three sessions, 83 personnel
- Relocated Fire Control Shop, refurbishing new space to meet requirements
- Completed recertification of the ship's Micro-electronic and Miniature-electronic repair stations

#### Weight Test/Quality Assurance Division

- Performed weight tests on 359 pieces of general and ordnance weight handling equipment
  - 309 items for USS PROTEUS
  - 23 items for submarines
  - 27 items for surface ships
- Swaging Shop manufactured the following
  - 22 wire rope slings
  - 34 lifelines



- Units tended

- SSN 680	- AFS 3	- SITE III
- SSN 695	- AFS 7	- Naval Station, Guam
- SSN 596	- FFG 33	

- QA provided 100% coverage for all weight tests and all AA&E moves.

6. Engineering Department

a. In January 1985, PROTEUS defueled, deballasted, and off-loaded 2,300 tons of parts and equipment to prepare for dry docking in AFDM-8 which was accomplished on time, within six inches of trim. The overhaul commenced on 16 January 1985 with a three month dry docking. While in dock and undergoing overhaul, it became apparent that Ship Repair Facility, Guam might be unable to provide sufficient power upon undocking to test the newly installed communications and air conditioning equipment. Both number 1 and 2 Ship's Alongside Diesel Generators (SASDG) were removed from layup a month early and training and requalification in diesel light off and operation were aggressively pursued. It paid off. After an uneventful undocking both SASDG's went on line when the fears of insufficient shore power were realized. As a result of this advance planning there were no lost workdays, testing proceeded smoothly, and the overhaul was completed 14 days ahead of schedule. The overhaul, the first major overhaul for Ship Repair Facility, Guam was highly successful. This was due in no small measure to the officers, chief petty officers and other senior enlisted personnel in the Engineering Department. These individuals tracked, on a daily basis, 380 shipyard jobs and 245 ship accomplish items. Their consistent aggressiveness in prosecuting the shipyard work package and deep concern for quality work was apparent to all who monitored the progress of the overhaul. It was no accident that there were no fires, floodings, or serious work related personnel injuries during this period. The Fire Watch Division was organized, trained and supervised by an extremely capable group of senior petty officers from the Engineering Department. Training was high priority for the entire Engineering Department and the requalification process was rigorous, requiring many extra hours and late nights, but when PROTEUS got underway for the shake-down cruise, she did it with three qualified watch sections and was able to man a four section underway watchbill within 14 days.

b. A team from Fleet Training Group, Yokosuka was embarked for the 12 day transit to Subic Bay, R.P. General quarters evolutions and Repair Locker Training were held six days a week, as were formal classes in General Damage Control, Chemical, Biological, and Radiological Defense, and Damage Control Petty Officer Indoctrination. Basic Engineering Casualty Control Drills were held from 0800-2400 daily, and all sections were thoroughly exercised.

c. The Engineering Department completed the following major work items during Fiscal Year 1985.

(1) Diesel engine inspections on numbers 2, 3, and 4 ship's service diesel generators, number 1 ships alongside diesel generator, and number 4 main engine.

(2) Overhauls on number 1, 2, and 3 ship's service refrigeration compressor. Replaced 38 refrigeration system valves.

(3) Cleaned and flushed ship's refrigeration system.

(4) Assisted in installation of six 125 ton R-114 centrifugal air conditioning plants.

(5) Replaced refrigeration saltwater sea suction and overboard discharge valves.

(6) Replaced six saltwater system 5" gate valves for numbers 3, 5, and 6 air conditioning units.

(7) Assisted in overhaul of port and starboard boat and airplane cranes.

(8) Assisted in the installation of four low pressure air dehydrators.

(9) Installed one high pressure air dehydrator.

(10) Installed new vital low pressure air system and associated priority valve.

(11) Overhauled numbers 2 and 4 high pressure air compressors.

(12) Overhauled numbers 1 and 2 fire pumps.

(13) Successfully completed HP air system inspection for Diver's Air Recertification.

(14) Completed installation of emergency saltwater cooling system in forward engine room.

(15) Assisted in rebricking number 1 and 2 boilers.

(16) Assisted in replacing boiler casings on number 1 and 2 boilers.

(17) Overhauled main boiler steam stops.

(18) Replaced hotel services steam stops.

(19) Cleaned and preserved all potable water and feed water tanks.

(20) Overhauled number 1 and 2 oil waste pumps.

(21) Overhauled number 1 brine pump.

(22) Overhauled number 1 and 2 main feed pumps.

(23) Assisted in the installation of two 40,000 GPD Aqua-Chem flash-type evaporators.

(24) Overhauled number 1, 2, and 3 fire and flushing pumps.

(25) Overhauled number 1 evaporator Ameroyal pump.

(26) Completed refurbishment of firesides and watersides on number 1 and 2 boilers.

(27) Replaced soot blowers on number 1 and 2 boilers.

(28) Overhauled number 1 and 2 boiler burner assemblies.

(29) Overhauled number 1, 2, and 3 fire, flushing and emergency bilge pumps.

(30) Replaced eductor check valves on number 1, 2, 3, 4, 5, 6, 7, and 8 eductors.

(31) Acid cleaned lube oil coolers on all 12 diesel engines.

(32) Cleaned and hydrostatically tested air box coolers on all six main engines.

(33) Overhauled number 1 and 2 fresh water pumps.

(34) Replaced anchor windlass brake pads.

(35) Overhauled after steering six-way hydraulic control valve, reset hydraulic system relief valves, and replaced all connecting rod bushings.

(36) Overhauled saltwater cooling system for O<sub>2</sub>N<sub>2</sub> plant.

(37) Repaired cracked transition joint in the O<sub>2</sub>N<sub>2</sub> generator.

(38) Overhauled O<sub>2</sub>N<sub>2</sub> plant Elliot low pressure air compressor lube oil cooler.

(39) Installed five self-contained package air conditioning units.

(40) Installed two galley garbage grinders.

(41) Installed two washer extractors.

(42) Installed saltwater strainers on number 1 and 2 high pressure air compressors.

(43) Hydrostatically tested 22 high pressure air flasks.

(44) Replaced track on number 2 vertical storage conveyor.

(45) Repaired or replaced steam, water, and drain valves on 12 installed hot water heaters.

(46) Overhauled number 1 eductor suction, discharge and firemain valves.

(47) Cleaned and hydrostatically tested number 1, 2 and 4 high pressure air compressor heat exchangers and oil coolers.

(48) Relagged five hot water heaters.

(49) Cleaned, inspected, and hydrostatically tested number 1, 2, 3, and 4 low pressure air compressor heat exchangers.

(50) Replaced port and starboard boat and aircraft crane boom cradles.

(51) Overhauled auxiliary steam reducer.

(52) Overhauled three laundry presses.

(53) Rudder and post inspected and tested.

(54) Overhauled two Westerbeke and two 64HN9 small boat diesel engines.

(55) Overhauled drive systems on three officer's motor boats, one 40/50 foot utility boat, and the port and starboard motor whale boats.

(56) Overhauled two gas welding machines.

(57) Removed Stromburg-Carlson telephone exchange and assisted in the installation of the Dimension 2000 Electronic PBX Telephone System.

(58) Overhauled boiler combustion control systems.

(59) Replaced number 3 main engine alarm panel.

(60) Installed Ship's Information, Training and Education (SITE) Television System.

(61) Overhauled 2JV and 4JV sound powered phone circuits in the Auxiliary Machinery Room.

(62) Replaced ship's alongside shore power cables from plug deck to ship's alongside service switchboard.

(63) Repaired 11 vent motors.

(64) Repaired number 2 vertical storage conveyor controller.

(65) Repaired voltage regulator circuit for emergency diesel.

(66) Assisted in repairs to resistor banks for motor field control on forward and after propulsion switchboard.

(67) Overhauled towing winch controller.

(68) Replaced current limiting fuses on number 2 SSDG circuit breakers.

(69) Replaced corroded breaker for topping motor controller for starboard boat and aircraft crane.

(70) Replaced voltage regulator assembly for number 3 SSDG.

(71) Rewound number 3 reduction gear lube oil pump motor.

(72) Overhauled high pressure air manifold on number 2 high pressure air dehydrator.

(73) Overhauled controller for number 2 main refrigeration plant controller.

(74) Repaired engine fault relay circuit for number 3 main propulsion conveyors.

(75) Replaced overload sensing motors for number 1 and 2 vertical package conveyors.

(76) Replaced current transformer for number 1 vertical package conveyor controller.

(77) Repaired compressor circuits on two walk-in refrigerators.

(78) Installed 440 volt and 110 volt receptacles on quarter-deck for portable CHT tank.

(79) Replaced brushes on governor field control in forward and after propulsion switchboard.

(80) Installed disconnect switch for two gyro compass batteries.

(81) Repaired and replaced portable battery charger diodes.

(82) Installed numerous electric fans in berthing compartments.

(83) Installed new batteries for main gyro compass, auxiliary gyro compass, Captain's Gig, OMB-1, OMB-2, MWH-1, and MWH-2.

(84) Rewired aircraft warning lights.

(85) Installed 10 new recirculating fans in chill boxes.

(86) Rebuilt and tested governors on all 12 diesel engines.

(87) Overhauled 192 fuel oil injectors.

(88) Overhauled fresh water and saltwater pumps on all 12 diesel engines.

(89) Crankshaft deflection readings taken on all diesel engines before and after drydocking.

(90) Inspected all internal parts, took clearance readings and checked piston tube oil lines on all diesel engines.

(91) Hydrostatically tested fresh water systems on all diesel engines.

(92) Replaced lube oil and fuel oil filters on all diesel engines.

(93) Replaced number 10 power pack on number 1 ship's alongside diesel generator.

(94) Cleaned 24 intake filters for diesel engines.

(95) Cleaned and inspected all diesel engine fuel oil strainers and lube oil coolers.

(96) Replaced cylinder head on number 2 main engine.

(97) Replaced approximately 200 gage cutout valves with approved bar stock valves.

(98) Overhauled number 3 ship's service diesel generator.

(99) Overhauled number 1, 2, 3, and 4 lube oil and fuel oil purifiers.

(100) Replaced number 3 bilge pump.

(101) Inspected forward main reduction gear journal bearing.

(102) Inspected number 7 main motor pedestal bearing.

(103) Replaced port and starboard shafts.

(104) Opened, cleaned and inspected all spring bearings.

(105) Performed Class B overhaul on all saltwater reducing valves in both engine rooms.

(106) Overhauled high pressure air reducing valves in both engine rooms.

(107) Replaced numerous flange shields in all main spaces.

(108) Cleaned, painted and preserved all engineering spaces.

(109) Overhauled No. 2 fire pump

(110) Overhauled leaking CHARLIE fresh water manifold

(111) Mechanically cleaned No. 1 boiler firesides

(112) Replaced Ship's Service drain valves

(113) Repaired and cleaned fresh water tank B-35-W

(114) Replaced hotel services steam reducer

(115) Repaired and cleaned high drain cooler

(116) Overhauled AFT peak tank fresh water pump

(117) Installed two new Ameroyal pumps

(118) Overhauled No. 2 bilge pump

(119) Designed and installed automatic hotwell water level regulator

(120) Hydro tested No. 1 boiler

(121) Provided shore power cable to units alongside

- (122) Provided shore power to submarine at pier Alpha and Bravo
- (123) Repaired main circuit breaker of No. 1 SASDG
- (124) Repaired Various Electrical galley equipment
- (125) Repaired various electrical laundry equipment
- (126) Repaired electrical system of seven small boats
- (127) Removed six deteriorated ship's alongside shore power cables
- (128) Assisted in the installation of six new ship's alongside shore power cable
- (129) Removed one grounded SAS feeder cable and installed new cable
- (130) Charged wet cell type batteries of various tended units
- (131) Conducted safety check of all on board electrical equipment
- (132) Replaced shaft, packing, strut bearing of port and starboard motor whale boats
- (133) Repaired two P-250 engines and pumps
- (134) Removed, overhauled and reinstalled GM 6-71 on OMB-#1 and #3
- (135) Overhauled bilge pump of 50 foot utility boat
- (136) Overhauled bilge pump of 40 foot utility boat
- (137) Installed control cables in OMB #3
- (138) Overhauled salt water pump of OMB #3
- (139) Overhauled two spare salt water pumps for utility boats
- (140) Replaced port sea suction valve on LCM-6
- (141) Replaced, overhauled, reinstalled and tested port engine of LCM-6
- (142) Retimed starboard engine of LCM-6
- (143) Overhauled bilge pump of LCM-6
- (144) Overhauled two 6-71 blowers for ready spares
- (145) Replaced thermostat and V-belts of starboard motor whale boat
- (146) Installed control cables in LCM-8
- (147) Installed salt water suction valve in LCM-8
- (148) Overhauled air compressor of LCM-8
- (149) Installed two twin pack 6-71 engines in LCM-8

- (150) Overhauled No. 1 fire and flushing pump
- (151) Took thrust reading on main generator shafts
- (152) Overhauled No. 1 ship's alongside diesel engine, replacing 16 power packs; cleaned engine block and air boxes; replaced main bearings
- (153) Overhauled No. 3 fire flushing pump and No. 3 fire and flushing and emergency bilge pump
- (154) Repaired No. 2 salt water circ pump reducing valves
- (155) Replaced section of bilge piping
- (156) Replaced four foot section of No. 4 main engine and No. 4 SSDG piping
- (157) Replaced two power packs and one piston assembly of No. 3 SSDG
- (158) Replaced one power pack and one piston assembly of No. 4 SSDG
- (159) Completed diesel engine inspection on No. 3 and 4 SSDG
- (160) Disassembled No. 2 SASDG for complete overhaul
- (161) Inspected No. 8, 9, & 10 spring bearings
- (162) Made emergent repairs on No. 9 spring bearing during dependents cruise
- (163) Inspected all main motors' pedestal bearings
- (164) Replaced starboard B and A crane topping electrical motor bearings
- (165) Overhauled No. 1 high pressure air compressor
- (166) Overhauled No. 4 low pressure air compressor
- (167) Replaced towing winch transmission
- (168) Upgraded 12 hot water heaters
- (169) Cleaned and tested four low pressure air conditioning coolers
- (170) Cleaned and hydrotested No. 1 and 4 high pressure air conditioning coolers
- (171) Installed one new laundry press
- (172) Replaced faulty back pressure valve on No. 2 high pressure air compressor
- (173) Supported recompression chamber recertification
- (174) Replaced main bearings on No. 4 washer extractor
- (175) Replaced oil wiper seals on No. 3 and 4 low pressure air compressors



- (176) Replaced oil wiper seal on No. 4 high pressure air compressors
- (177) Replaced 6th stage piston rod on No. 1 high pressure air compressor
- (178) Replaced limit switch and MR relay on missile crane
- (179) Replaced magnetic contactor on starboard ice cream machine
- (180) Replaced auto voltage adjustment on No. 1 SASDG
- (181) Replaced trip unit of O<sub>2</sub>N<sub>2</sub> low pressure air compressor circuit breaker
- (182) Replaced brake solenoid of No. 1 washer
- (183) Replaced thermostat and heating element of EDF food warmer
- (184) Replaced resistor on No. 1 50 KW MG set
- (185) Replaced burnt out control power switch on SAS switchboard
- (186) Replaced No. 1 SSDG rectifier
- (187) Replaced air start solenoid of No. 1 SSDG
- (188) Hooked up electrically R-1 package AC unit
- (189) Replaced bad bearings of No. 1 and 2 fire and flushing pump
- (190) Troubleshoot emergency diesel low exciter voltage
- (191) Repaired starboard boat davit controller
- (192) Replaced No. 3 salt water Y-strainers of ship refrigeration plant
- (193) Replaced No. 3 compressor in EDF salad bar
- (194) Repaired Bake Shop reefer
- (195) Repaired two compressors in CPO Mess reefer
- (196) Replaced WRV in Radio package AC unit
- (197) Replaced APG package AC unit
- (198) Repaired water fountain in carpenter shop and mess decks
- (199) Repaired EDF ice machine
- (200) Replaced R-1 berthing package AC unit compressor
- (201) Installed 4 LP switches on LP dehydrator
- (202) Installed plastic inserts on condenser tubes of AC units
- (203) Replaced Auxiliary Pump on No. 3 AC unit

(204) Casreped the following equipment

- No. 3 400 HZ MG set
- No. 1 400 HZ MG set
- No. 1 and 2 SASDG
- No. 2 main engine
- Towing winch
- O<sub>2</sub>N<sub>2</sub> Elliott low pressure air compressor
- No. 3 AC compressor
- No. 1 reefer compressor

(205) Maintained an overall PMS accomplishment rating of 95% for shipwide Damage Control PMS

(206) Recharged 46 CO2 bottles for USS PROTEUS and tended units

(207) Corrected 700 deficiencies in shipboard heads, sinks, and showers

(208) Conducted six indoctrination courses in General Damage Control for new personnel reporting on board

(209) Provided two tiger teams to provide nitrogen charges for USS JACOSONVILLE and USS LAPON

(210) Provided tiger teams for eight submarines to effect AC&R repairs

(211) Provided tiger teams to USS CALIFORNIA to assist in the repairs to their emergency diesel

(212) Overhauled eight PUG-8 governors, eight UG-8 governors, 100 fuel pumps and 100 fuel injectors for tended units

(213) Provided shore power, telephone services, and pure water to all units tended alongside

#### Damage Control Division

a. During 1985 the following initiatives, improvements and training in regard to damage control (DC) readiness have been realized:

(1) Fleet Training Group, Yokosuka, Japan conducted underway training from 23 July to 3 August 1985. This training assist encompassed all aspects of damage control ranging from general damage control to chemical, biological, and radiological defense seminars. Fleet Training Group instructors provided formal courses of instruction in General Damage Control (53 personnel completed), and Chemical, Biological, Radiological Defense (35 personnel completed). All facets of practical damage control were exercised during this period. Multiple "hits" battle problems were initiated to provide an overall assessment of PROTEUS' before and after casualty control actions. Throughout this training period all hands became thoroughly indoctrinated in damage control requirements and procedures by utilization of general quarters evolutions. PROTEUS personnel were provided extensive training during this period and received no grade lower than 87% from Fleet Training Group personnel during battle problem evaluations.

(2) General Damage Control Training classes were conducted for approximately 400 PROTEUS personnel by senior DC Division personnel. These classes were provided as a tool to assist newly reporting as well as experienced personnel in completing General Damage Control PQS qualification. Instructors from the Damage Control Division were utilized for these three day courses which were eight hours per day in length. A direct result of this training was 92% pass rate for those involved. No one other project to date has yielded such high returns in this area.

(3) DC Division prepared, conducted and monitored 18 in port and seven at sea flooding drill evolutions. This training also was performed as an assessment and training tool for all casualty control team members.

(4) DC Division conducted qualification and refresher training for PROTEUS' Fire Marshal personnel. This training consisted of 23 classroom sessions aimed at initial as well as upgrade training for all involved. Direct results of these seminars was the qualification of nine additional PROTEUS Fire Marshals.

(5) DC Division provided continual training support for the Ship's Rescue and Assistance detail and In Port Duty Damage Control Teams. Approximately 125 documented duty section training sessions were held during this period. This training ranged from proper hose handling techniques to operation and care of atmosphere analyzing equipment.

(6) DC Division conducted in excess of 450 training sessions encompassing safety, general military training, and in-rate subjects.

(7) Practical training was conducted three times per week (six hours per week) for all primary and alternate PROTEUS Damage Control Petty Officers. Dramatic improvements in all aspects of their performance were realized as a direct result of this training. Areas that were once deficient have been noticeably upgraded. These actions are continuing.

(8) The ERO9 workcenter maintained and upgraded the ship's Damage Control PQS Spot Check Program. This program has consistently presented a completion factor in excess of 93%. Departmental 3M System inspections have yielded overall grades of above average to excellent within the ERO9 workcenter. Continual efforts are dedicated to upgrading the effectiveness of this program. ERO9 has consistently provided extensive material and administrative planning and support to the 32 shipboard divisions involved in the Damage Control PMS Program. Significant strides have been realized in increasing PMS accomplishment completion factors and documentation of necessary actions. All personnel involved have taken an aggressive part in this program's operation and success.

(9) DC Division conducted EEBD, OBA, material condition setting, hose handling and equipment training for all main space personnel. This training was required to support post overhaul and main space light-off requirements. The training was highly effective and provided a sound confidence level in regard to initial main space operation.

(10) DC Division provided equipment and personnel support to PROTEUS' Fire Watch Division during the first IOH period. The exceptional effectiveness of this division resulted in no major personnel injury or equipment damage

during the shipyard period, a significant feat considering the enormous amount of hot work that transpired.

(11) DC Division participated in on board CHT System training conducted by Fleet Training Group, Yokosuka, Japan. Eight personnel from Damage Control and Auxiliary Divisions were instructed in the proper operation and maintenance of shipboard CHT systems. Each participant was also indoctrinated in the proper safety precautions that must be utilized during CHT operations. These knowledge factors have been incorporated into the recently revised PROTEUS CHT instruction.

(12) DC Division completely revised and implemented PROTEUS' Main Space Fire Doctrine. This required the in-depth research of system requirements and the interfacing with numerous shore and shipboard activities for information and guidance. The finished product provided all concerned with a sole source document to utilize for main space casualty control and personnel training.

(13) DC Division prepared, conducted, and monitored 75 in port and 35 at sea fire drill evolutions. These drills were accomplished to evaluate and train the ship's in port duty Damage Control Team, Rescue and Assistance Detail, and Repair Locker Team in the performance of their respective duties.

(14) DC Division accomplished the following repair/maintenance items:

(a) Removed and replaced five CHT system sewage discharge pump assemblies, significant in the fact that repairs were all effected under emergent conditions.

(b) Upgraded divisional stowage areas to provide a more efficient utilization of space. This work involved the redesign and fabrication of all stowage racks and locker facilities within this space. All production work was performed by divisional personnel with no assistance from the intermediate maintenance facility.

(c) Effected repairs or replacement of eight flushing water reducing valves as well as 65 flushing system isolation valves.

(d) Provided repair and testing support for countless fire main system valves and components during the overhaul period.

(e) Performed extensive upgrades and repairs to all PROTEUS lavatory facilities. This work included the replacement of five wash basins, 12 waterclosets, 48 flushometers, 85 traps, 75 faucet assemblies, 39 shower manifolds, six urinals, over 50 miscellaneous isolation valves, and countless seals and fasteners. Many of these repairs were emergent in nature requiring immediate response of involved personnel.

(f) Expended approximately 375 OBA cannisters during drills, training, and casualty situations.

(g) Installed and stocked four weather deck emergency OBA lockers. These lockers are to be utilized in the event access to internal ship's OBA lockers is restricted due to casualty situations.

(h) Replaced two and repaired one CO<sub>2</sub> charging pumps.

(i) Performed structural modifications to the CO<sub>2</sub> Transfer Shop (ER09). These changes were required to resolve rainwater leakage into the shop spaces. Modifications were accomplished by work center personnel and were highly effective.

(j) Performed plumbing system cleanout plug installations on various sections of shipboard drain lines to resolve chronic blockage problems.

(k) Replaced nine marine strainers. Rebuilt six marine strainers.

(l) Performed extensive maintenance to all weather deck fire stations and associated equipment.

(m) Replaced numerous gaskets on fire main system joints. Nine joints required the removal of a significant amount of system piping in order to effect repairs.

(n) Inspected over 45 tanks and voids during the overhaul period. Provided support for the closeout inspection and subsequent testing of these tanks and voids.

(o) Witnessed the operation and proper position indication of over 30 tank and void flood and drain valves. This was accomplished in support of planned shipyard repair work.

(p) Procured and replaced approximately 475 shipboard ladder treads. This is an ongoing project that will, when complete, replace all worn internal and external ladder treads.

(q) Performed replacement of three AFFF System FP-160 Proportioning Pumps.

(r) Replaced two AFFF system control valves.

(s) Charged and weighed approximately 450 151b CO<sub>2</sub> fire extinguishers during this period. CO<sub>2</sub> Transfer Shop (ER09) also replaced over 39 501b CO<sub>2</sub> cylinders during this time frame.

(t) Expended 78 battle lanterns and associated components.

(u) Repaired or replaced 16 A-4 OBA assemblies.

(v) Updated repair locker inventory system, which resulted in the dramatic reduction in lost or unaccounted for repair locker materials.

7. Deck Department. PROTEUS' Deck Department accomplished/provided the following during 1985:

- 8,199 accident free small boat operation hours, totaling 19,137 man hours for PROTEUS, and 2,160 man hours for tended units

- 1,208 accident free hours of crane operation, totaling 3,885 man hours for PROTEUS and 2,155 man hours for tended units

- Cargo boom 906 man hours for PROTEUS

- Completed six month overhaul in which Deck Department painted ship's interior spaces (offices, berthing), and sand blasted, primed and painted exterior spaces.

- Manufactured heaving lines and mooring lines, and provided sand blasting service and assistance to tended units.

- Effected repairs to ship's small boats

- Provided a mobile paint locker for tended units

- Deck Department had three Junior Sailors of the Quarter, one Senior Sailor of the Quarter, two personnel awarded the Navy Achievement Medal, six Good Conduct Awards, four reenlistments and one extension. From the March advancement exam, three personnel were advanced to Petty Officer Third Class, one to Petty Officer Second Class and one to Petty Officer Second Class via the Command Advancement Program (CAP). From the September advancement exam five personnel were advanced to Petty Officer Third Class and two to Petty Officer Second Class.

- Five Enlisted Surface Warfare qualifications

- Training was a high priority in Deck Department with the emphasis being on safety. Actual hands on training has been accomplished in mooring to a buoy in Hong Kong, anchoring in Subic, Med Mooring in Guam, operation of ship's boats and aircraft cranes and daily use of the ship's LCMS, 40 foot and 50 foot UTB, 33 foot OMB and motor whale boats. A monumental preservation effort is on going on board PROTEUS to maintain the ship's material status and well maintained appearance. Deck is reputed for the high morale and ability to get the job done.

## 8. Medical Department

a. 1985 was a very productive year for the Medical Department of USS PROTEUS (AS 19). The first segment of an Incremental Overhaul for PROTEUS saw complete renovation of the Medical Department spaces, including painting and tiling of all spaces and refurbishment of the head. Much of the work was completed by Medical Department personnel while the ship was in drydock. In order to complete the aforementioned tasks, all medical supplies and equipment had to be removed from medical spaces to Site III. The Medical Department did not curtail service during the overhaul. Three buildings were procured and complete, uninterrupted service was provided to the crew. This was enhancing to the overhaul effort by eliminating time that would be lost transporting personnel to more distant medical facilities.

b. The department successfully completed a Medical Readiness Evaluation by Submarine Group SEVEN in November. A satisfactory grade was obtained with significant improvements noted. During the year, the Medical Department successfully completed six radiation health audits. The program is consistently graded "above average." A Naval Occupational Safety and Health Inspection was conducted in October and PROTEUS passed satisfactorily.

c. In addition to the units in upkeep by PROTEUS, medical support was provided to Navy and Coast Guard ships home ported in Apra Harbor. Support to tended units included physical examinations, medical/surgical consultation, de-rat certification, pest control activities, and administrative support. The

Radiation Health staff conducted four radiation health audits on the following units:

- USS BARB (SSN 596)
- USS TAUTOG (SSN 639)
- USS BIRMINGHAM (SSN 695)
- USS PORTSMOUTH (SSN 707)

d. In addition to the audits, radiation health assists were given to the USS SKATE (SSN 583) and to the Naval Magazine Guam. In support of radiological control programs, radiation health training was conducted at the Naval Hospital, Guam, and HC-5 at Naval Air Station, Agana, Guam.

e. The Medical Department maintained effective liaison with Naval Hospital Guam to ensure quality medical care for PROTEUS crew members and dependents. (b)(6) was relieved by (b)(6) as the Undersea Medical Officer. (b)(6) assumed responsibilities as Department Head, relieving (b)(6) as General Medical Officer. PROTEUS' medical officers continued to voluntarily stand emergency room watches while PROTEUS was in port. Additionally, the arrival of a board eligible internist to PROTEUS lent further support to the hospital's internal medicine watch. While deployed, the medical department provided expert medical assistance to the embassy staff in Hong Kong. Through tenacious preventive medicine practices, the department was able to subdue an outbreak of keratoconjunctivitis that had spread to affect over 70 crew members while deployed to Subic Bay, R.P. One patient received from a unit in upkeep was MEDEVACed to Hawaii, requiring accompaniment by one of the medical officers enroute. The quality of the department's expertise is evident, from providing all dive physicals on island to minor surgery and other specialty care.

f. Training receives high priority with comprehensive training in Medical in-service, Damage Control, 3M and Safety being conducted three times weekly. This resulted in five personnel achieving Damage Control qualifications, two achieving 3M qualifications, four achieving qualifications in Casualty Control, one as Radiation Worker, and three qualified as Safety Petty Officer. In addition, four corpsmen were certified as Emergency Medical Technicians with two recertifications; two attended audiometric training attaining certification; two attended NADSAP; four personnel were certified in Basic Cardiac Life Support; and five completed various college level courses. One physician completed the ARS visiting professional program.

g. Five corpsmen were advanced through the regular exam cycles. One corpsman was advanced to Third Class Petty Officer through the Command Advancement Program. Three eligible corpsmen reenlisted.

h. A significant upgrade in the material readiness of the department was achieved through the acquisition of advanced equipment. A new sterilizer was installed which, by design, will save the department space on the ward with no decrease in capabilities. An I.V. infusion pump was procured, as well as an automated EKG machine, thus modernizing the services of the department. A CPT terminal was obtained which, when connected to the ship's system, will reduce the amount of paperwork associated with various recurring health care programs that effect the entire crew. Certain modifications were made to the orthopedic bed

and to the adjacent bulkhead to provide more efficient traction services when required. Renovation of the operating room began in 1985. Changes include installation of a false overhead which will provide a safer, modernized facility for minor surgical procedures which may be performed.

i. Significant events in 1985 include:

Jan 1985 - Commencement of Incremental Overhaul resulting in refurbishment of medical spaces.

Jul 1985 - PROTEUS deployed to Subic Bay, RP and Hong Kong

j. The following statistics apply for calendar year 1985:

- Total outpatient visits	4,477
- Patients admitted to quarters	140
- Laboratory tests	2,444
- X-ray tests	403
- Pharmacy prescriptions	3,710
- Audiograms	257
- Physical Examinations	299
- Immunizations	979
- Occupational Injuries	96
- Recompression Chamber Patients	2
- Lithium Fluoride TLD's issued	84
- Film Badges issued	240
- Calcium Fluoride TLD's issued	1,323
- Internal Monitoring performed	95

9. Dental Department

The PROTEUS Dental Department has continued to provide only the highest quality comprehensive dental treatment. For the period 1 January 1985 to 31 December 1985, a total of 17,350 dental procedures were rendered. This figure includes 2,628 procedures rendered to several tended units. In all cases of tended units, combat readiness was improved to at least 98% and in some cases 100%. By careful screening of incoming personnel and an effective automated recall system, PROTEUS dental combat readiness increased to 95% from 87%.

During the PROTEUS overhaul from January to July 1985, the Dental Department, utilizing Marine Corps field dental units, remained operational on board. For personnel attached to Submarine Refit Site, Guam during the overhaul, a temporary shore dental facility was set up.



The Dental Department received an overall grade of "outstanding" from the COMSUBPAC Force Dental Officer during an assist visit inspection in May 1985.

The excellent participation of fleet units and aggressive Dental Fleet Liaison Program of PROTEUS enhanced the dental health status of all crews tended. This fact, coupled with the enthusiasm in which the dental personnel embraces its mission, prevents forward deployed fleet units from having mission degrading casualties due to dentally oriented problems. The overall outstanding reputation of PROTEUS for quality service is in part directly related to the productivity, high morale and genuine concern of the Dental Department.

#### 10. Administrative Division

During calendar year 1985 the Administrative Division processed 1,439 assigned and recorded tasks with CPT 8100 Word Processors in addition to many unrecorded taskings. Provided administrative support to all tended units and visiting inspection teams.

#### 11. Personnel and Educational Services Division

##### Advancement Statistics

##### a. January 1985 - E7 Exam

<u>Candidates</u>	<u>Sel Bd Elig</u>	<u>Selectees</u>	<u>Adv Percent</u>
109	71	27	24

##### b. March 1985 - E4 through E6 Exams

<u>Candidates</u>	<u>Selectees</u>	<u>PNA</u>	<u>Fail</u>	<u>Adv Percent</u>
E6 - 49	26	18	5	53
E5 - 95	24	66	5	25
E4 - 31	12	19	0	38

##### c. September 1985 - E4 through E6 Exam

E6 - 38	18	18	2	47
E5 - 102	45	56	1	44
E4 - 79	70	9	0	88

##### d. November 1985 - E8 and E9 Candidates

E8 candidates - 40 SBD Elig - 40  
E9 candidates - 2 SBD Elig - 2

##### e. Command Advancement Program (CAP)

July 1985

	<u>Candidates</u>	<u>Selectees</u>
E4	3	3
E5	4	4
E6	1	1

December 1985

	Candidates	Selectees
E4	1	1
E5	0	0
E6	3	1

f. Military Leadership Exam

PO3	Pass - 114	Fail - 6
PO2	Pass - 114	Fail - 4
PO1	Pass - 76	Fail - 10
CPO	Pass - 134	Fail - 7

Personnel received and transferred from 1 January 1985 to 31 December 1985.

Received: 471

Transferred: 490

Officers received: 23  
Officers transferred: 20

Command Career Counselor

Retention Statistics: For Fiscal Year 1985, of 155 personnel eligible for reenlistment, 133 were retained for an overall net reenlistment percentage of 86%, gross 80%.

<u>FIRST TERM</u>	<u>NO. ELIG</u>	<u>NO. NON-ELIG</u>	<u>NO. REEN</u>	<u>NET %</u>	<u>GROSS %</u>
Nuclear	0	0	0	0	0
Non-Nuclear	85	11	68	80	71
Total	85	11	86	80	71

<u>SECOND TERM</u>	<u>NO. ELIG</u>	<u>NO. NON-ELIG</u>	<u>NO. REEN</u>	<u>NET %</u>	<u>GROSS %</u>
Nuclear	2	0	1	50	50
Non-Nuclear	30	1	30	100	97
Total	32	1	31	97	94

<u>THIRD TERM</u>	<u>NO. ELIG</u>	<u>NO. NON-ELIG</u>	<u>NO. REEN</u>	<u>NET %</u>	<u>GROSS %</u>
Nuclear	1	0	1	100	100
Non-Nuclear	37*	0	33	89	89
Total	38	0	34	89	89

OVERALL	155	12	133	86	80
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\* 4 Fleet Reserve Transfers

Of the 133 personnel who reenlisted in FY85, 62 received reenlistment guarantees as follows:

51 Guard III                      10 School Guarantees                      1 TAR

Extensions on board: 254 requests submitted, approximately 25% of the crew.

12. Legal Office. During calendar year 1985, PROTEUS' Legal Office provided the crew with individual legal assistance as well as providing legal and administrative services for administrative and disciplinary actions. Statistics are as follows:

- Legal Assistance	350
- Bills of Sale	10
- Powers of Attorney	435
- Affidavits	127
- Wills	15
- Personnel Claims	20
- Total Appointments	957
- JAGMAN Investigations	16

Disciplinary Matters

- Nonjudicial Punishments	85
- Summary Courts-Martial	1
- Special Courts-Martial	0
- Administrative Discharges	13
- Article 32 Investigations	0

13. Drug and Alcohol Program

During 1985 the following occurred:

- 27 individuals were identified as drug abusers
- 10 identified drug abusers were discharged
- 70 individuals were identified as alcohol abusers/alcoholics or had an alcohol related problem or incident
- 129 individuals were screened by the Command DAPA
- 52 individuals were screened at the Counseling and Assistance Center (CAAC)
- 32 individuals were screened at the Alcohol Rehabilitation Service (ARS)
- 41 individuals received Level I counseling
- 18 individuals received Level II counseling

- 25 individuals received Level III rehabilitation
- Approximately 151 individuals attended NADSAP

#### 14. Chaplain's Division

During calendar year 1985 the Chaplain's Division had a complete turnover of office personnel, Chaplain and RP's.

As a result of the overhaul period, all office/library materials and equipment were removed from the ship and then replaced prior to the July deployment to Subic Bay and Hong Kong.

The complete range of ministry and conduct of the command religious program was carried out by the division. This included, but not limited to, divine services, pastoral counseling for individuals and couples, small group meetings, bible studies, alcohol rehabilitation group sessions at the hospital, various collateral duties and meetings.

In addition to services provided for the crew of PROTEUS, the Chaplain's Division provided support, materials and counseling for tended units.

#### 15. Supply Department

The past year has been a year of transition for the Supply Department. After completing a six month Incremental Overhaul (IOH) and a change in Supply Officers, the department settled down into a mode of "doing today's business today." In order to accomplish this, many new procedures were developed and promulgated so that everyone knew exactly what was expected of them to accomplish the departmental mission - logistics support to the ship, IMA and tended units. The following divisional briefs will indicate just how far we have progressed in the past year and what expectations we have for the coming year.

##### a. Stores Division

1985 was a year of significant upgrade in the capabilities and performance of Stores Division which was a result of the division's long hours of hard work. 1985 was divided almost equally into two parts and each half required significantly different efforts from the "Workhorse of the Fleet."

January opened with Stores Division conducting an off-load of all material in 16 storerooms in preparation for the Integrated Logistics Overhaul which was conducted concurrent with the Incremental Overhaul. These storerooms were chosen either because of the need to conduct complete inventories of the contents or because of the need to significantly lighten the ship for the dry-docking. The off-load involved triwalling all material while maintaining the storeroom location as the decision had been made not to "NIIN down" and relocate material. Triwalls were then moved ashore and delivered to the ILO section of NSD Guam. Stores Division also provided a nucleus crew for the ILO team and was augmented by technical ratings from the rest of the ship.

During the overhaul the storerooms were "frozen;" no parts being received or issued. During the six months of the overhaul, Stores Division planned and carried out a program of location audits and storeroom preservation. The location audit program was carried completely through and hundreds of items were

located and either had the paperwork prepared to add the proper storeroom to the Master Stock Status Locator Listing (MSSLL) or were off-loaded if they did not qualify for stocking.

As the overhaul closed out and sea trials were successfully completed Stores Division welcomed aboard a new Supply Officer, [REDACTED] (b) [REDACTED], USN. Under his direction the transition from overhaul to operations was made smoothly and was the occasion for the development of many new operating procedures. A significant amount of training was accomplished and the division was once again "Ready For Sea."

A six week cruise to Subic Bay, RP and Hong Kong was next but Stores Division first had to load the accumulated receipts from the previous six months. This was accomplished through long hours and several weekends, but when it came down to the wire all stores were on board more than 48 hours in advance and the division had plenty of time to secure for sea.

The cruise was completely successfully in all aspects and some of the preservation that was not accomplished during the overhaul was accomplished during the Subic Bay upkeep. Then on to Hong Kong for some well deserved liberty.

Upon return to Guam the division continued making significant progress toward completion of the Supply Department Improvement Program that the Supply Officer had initiated. This involved completing the establishment of operating procedures that had been started. Also undertaken and completed was a program to revamp the use of the pier warehouses. All controlled material was moved aboard and the previous controlled material warehouse was filled with bulk material. All permanent stowage in the T-Shed was eliminated and a program of loading all storeroom groups each day was started. After some initial coordination problems the program began working smoothly and a backlog of material was eliminated.

As the year came to a close Stores Division was able to review the significant progress that has been made and looks forward to even greater improvements in the future.

#### b. Food Service Division

The Food Service Division spent the first five months of the year in dry dock at the Ship Repair Facility, Guam. During this period PROTEUS crew subsisted at the Enlisted General Mess, Naval Station, Guam. Even though in a different atmosphere, S-2 personnel showed their enthusiasm and expertise in providing high quality meals. They also provided hot nutritious box lunches for duty section personnel on board the ship. At the same time 50% of the division was reorganizing and reoutfitting food service spaces to meet the schedule for reopening the General Mess.

The division made tremendous strides in making the spaces ready. The General Mess was opened on 10 May 85 and since then has provided the crew with highly delectable and well received meals.

The Food Service Division has tendered, with much fervor, a number of unbelievable Special Meals. They are as follows:

Pan-Asian American	- 15 May 85
Military Spouses' Day	- 23 May 85
4th of July Ship's Picnic	- 4 Jul 85
Hispanic Heritage Week	- 18 Sep 85
210th Navy Birthday	- 11 Oct 85
Thanksgiving Dinner	- 28 Nov 85
Christmas Dinner	- 25 Dec 85

These Special Meals symbolized the genuine desire of S-2 personnel to bring forth camaraderie and uplift the morale of the crew.

The Food Service Division received numerous laudatory comments from Navy Food Management Team and Supply Management Inspection Team for outstanding improvements in all aspects - sanitation, food preparation, records and returns, etc.

From 23 Jul to 31 Aug 85, PROTEUS deployed to Subic Bay, Philippines and Hong Kong. While in Subic, PROTEUS provided three submarines with subsistence items.

Food Service transaction statistics are as follows:

	<u>INVENTORY</u>	<u>RECEIPTS</u>	<u>EXPENDITURES</u>
1st Qtr.	\$ 1,673	\$ 6,069	\$116,970
2nd Qtr.	138,639	247,158	109,339
3rd Qtr.	234,802	302,595	206,989
4th Qtr.	168,884	142,644	214,216
Annual Ave	543,998	698,466	647,514
Qtrly Ave	136,000	174,617	161,879

From Sep thru Dec 1985 PROTEUS was at homeport in Guam. We assisted eleven submarines and subsistence transfers were made amounting to \$78,786.29. Messing support was provided for two tended units for 39 days. This period was also spent in preparation for the upcoming SMI inspection in which a lot of man-hours were put in. Painting and preservation and plans to improve the dining atmosphere of the OLD PRO were ongoing.

#### c. Sales Division

Throughout 1985, the sales division provided superior service to the PROTEUS crew and to tended units. A wide selection of merchandise, available at competitive prices in the Uniform Shop, Ship's Store, and the Fountain, improved crew's morale during in port and deployed periods. One day turnaround time for processing laundry and the high volume of business handled by both barber shops earned praise for their efficiency and high quality of work.

During PROTEUS' five month overhaul, S-3 worked hard to off-load all stores in order to paint, tile and preserve all S-3 spaces. The hard work paid off six months later when the COMSUBPAC SMI Team complimented the division on the orderly stowage of material and the excellent material condition of the spaces.

Upon completion of the overhaul, PROTEUS loaded out for a six month deployment to the Philippines and Hong Kong. Foreign merchandise purchased offered the crew variety and enhanced the retail outlets.

Seven new Vending Machines, a Snackmart and six Video Games contributed significantly to profits, enabling S-3 to give \$45,000.00 to the Welfare and Recreation Fund for 1985.

Sales figure for the year:

Retail Sales	\$217,754.00
Vending Machine Sales	\$ 92,469.00
Video Games Sales	\$ 8,961.00
Standard Navy Clothing	\$ 8,022.00

Outstanding Sales Division records keeping allowed S-3 to achieve 100% inventory validity in the Bulk storerooms and received only seven minor discrepancies on the SMI conducted at the year's end. With a 1.98 stock turn for the last accounting period, S-3 is well on its way to a successful 1986.

d. Disbursing

The Disbursing Office provided extensive support to PROTEUS' crew regarding financial services, as well as to the tended units alongside. With a motto of service to the fleet, the Disbursing Office provided services ranging from check cashing to more complex financial matters.

The services provided are check cashing, all types of travel claims, both permanent change of station (PCS) and temporary additional duty (TAD); allotment requests; advance pays and other types of special pay; and various other types of financial matters. The Disbursing Office was on call 24 hours a day, ready to handle any and all types of trouble calls.

Approximately 1000 travel claims were processed during 1985, and over 3000 payment vouchers were handled. On many different occasions, Disbursing responded to Tiger Teams leaving on short notice.

A deployment to Subic Bay, R.P. and Hong Kong highlighted the 1985 year. Along with the deployment came many challenging opportunities in the disbursing area. For example, Disbursing personnel had to shift personal funds from the Pay Deposit Quicker (PDQ) System to allotments and later reinstitute the PDQ system on returning to Guam. Also, Career Sea Pay and Foreign Pay brought on a challenge to the disbursing staff, who eagerly accepted the challenge.

The Disbursing Office is looking forward to the 1986 year because of the new changes and challenges that it holds. For example, Disbursing is awaiting the Uniform Micro Computer Disbursing System (UMIDS). An office expansion is expected also. These changes will enable the disbursing office to better serve PROTEUS' crew and tended units expected alongside.

e. Stock Control Division

The division has gone through several personnel changes during this year. Some resulted in a loss of great talent and some were of great benefit to the division. PROTEUS now has a new Stock Control Officer. A great deal of effort has been placed on finding the right person for the right job. This has been accomplished by switching personnel around within the division and within the

Supply Department. Additionally, a junior DP is rotated through the division for three month periods to assist with receipt processing keypunching. Significant accomplishments include:

- The nagging problems of Unauthorized On Order and Unauthorized Long Supply are well under control, and we are within COMSUBPAC goals in these areas. This is a result of conscientiously following a schedule of weekly reorders, weekly off-loads and canceling unnecessary requisitions.

- Heretofore, an unmatched overaged receipt problem was considered to be unsolvable. By processing overaged unmatched expenditures on a daily basis and implementing improved receipt processing procedures this problem was eventually turned around in 1985.

- An enhanced training program has paid dividends in reducing data entry error rates. Previous error rates were in excess of 30-40%. Error rates are now within a percentage point of the COMSUBPAC goal of 10%.

- Desk guides have been improved and rewritten to provide more flexibility in switching personnel between various work stations and assist in retaining valuable corporate knowledge. Additionally, more than a dozen operating instructions have been written to standardize daily procedures using the authorized publications and official guidance.

#### f. SUBSAT Division

1985 was an extremely versatile year for SUBSAT. From Jan to Mar, during the ship's overhaul, SUBSAT moved ashore. Although far removed from the ship's location, we continued to provide exceptional service and worked harder than ever. The "hot list" averaged around 480 requisitions. We processed 4,910 priority 02 requisitions, surpassing prior year figures. Routine requisitions totalled 26,588 of which 15,651 were S&E and 10,937 were ROV. In 1985, PROTEUS performed 11 submarine and nine surface ship upkeeps processing 2,973 boat requisitions for a net effectiveness of 90%. Additionally, we processed 1148 priority message requisitions from deployed units. SUBSAT responded professionally to all the challenges of 1985 and is striving to remain the best customer service organization in WESTPAC.

#### g. Automated Data Processing Division

Automated Data Processing (ADP) Division continued to support the Repair and Supply Department successfully during 1985, with major improvements in customer liason and more efficient production resulting from an improved Computer Operator training program. The SNAP 1 PHASE II 'B' Configuration installation in January 1985 marked the beginning of the SUADPS-RT (Real Time) and IMMS-RT (Real Time) support program on board PROTEUS. This major installation included an additional 37 computer terminals and 10 serial printers being installed in departmental spaces throughout the ship.

The existing ADP Division Computer Operations/Supervisor PQS manual was revised, approved and implemented. During this same period a Honeywell DPS-6 maintenance PQS program was written, approved and implemented. Because of the improved training efforts associated with these programs a customer production turnaround time continued to improve and computer downtime due to hardware failure dropped to a level below 38%, the best record of system reliability of



all COMSUBPAC tenders. These programs are continually proving to be the cornerstone to efficient and effective support of customers and sound professional training for all ADP divisional personnel.

The massive personnel turnover brought about a total change in character of the ADP Division, with a new ADP Officer coming on board in August, 11 new DP's and three new DS's. 1985 was a very productive year for ADP Division in the areas of customer support and professional training. In 1986, these areas will continue to be of vital concern to the division as we begin planning for Real-Time Data Processing.

#### h. Supply Quality Assurance

1985 was a transitional year for Supply QA. Starting out the year in an Incremental Overhaul (IOH), the Division monitored the Integrated Logistics Overhaul (ILO), making several critical recommendations on the conduct of the ILO Process. Soon after the completion of the IOH, the mission of the division began moving from an inventory/count function to a purely audit function. There were new procedures written and goals established which the division is now tasked with measuring and/or ensuring compliance with. The largest single contribution SQA has made this year has been conducting causative research into prior inventory adjustments of Depot Level Repairables. This has become the Division's mainstay and number one priority.

The division expects further transaction into auditing of the Food Service and Retail Sales operations during 1986.

#### 16. Commander Submarine Group SEVEN Representative Guam

- 15 JAN 85      USS PROTEUS (AS 19) commenced Incremental Overhaul in Navy Ship Repair Facility, Guam
- 16 JUL 85      USS PROTEUS (AS 19) completed Incremental Overhaul at Navy Ship Repair Facility, Guam.
- 23 JUL 85      Deployed aboard USS PROTEUS (AS 19)
- 31 AUG 85      Returned from deployment. Ports visited: Subic Bay, R.P. and Hong Kong
- 11 NOV 85      (b) (6) reported from USS JAMES K. POLK (SSBN 645) (BLUE) to relieve (b) (6) as Material Officer.
- 27 NOV 85      (b) (6) transferred to USS GEORGIA (SSBN 729) (BLUE).

#### 17. Summary of USS PROTEUS accomplishments and recognition received during 1985

1985 was one of the best and memorable years for PROTEUS accomplishments. PROTEUS successfully completed, ahead of schedule, the first phase of an incremental overhaul from January to July 1985 at Ship Repair Facility, Guam, during which time logistic and repair support continued to be rendered to submarines stopping in Guam as well as "Tiger Team" support to submarines in remote areas. PROTEUS was awarded her second consecutive COMSUBPAC Engineering "E" Award for FY85. Additionally, PROTEUS received her fifth consecutive CINCPACFLT Golden Anchor Award for Retention Excellence for FY85; CINCPACFLT, Admiral J. A. Lyons, personally presented this award as well as a CINCPACFLT plaque commemorating the unprecedented achievement, to the Commanding Officer, USS PROTEUS, with the crew in formation.



DEPARTMENT OF THE NAVY

USS PROTEUS AS-19  
FPO SAN FRANCISCO 96646-2575

5750  
Ser 10/969  
8 JUN 1987

From: Commanding Officer, USS PROTEUS (AS 19)  
To: Director of Naval History (OP-09BH), Washington Navy Yard,  
Washington, D.C. 20374-0571  
Subj: USS PROTEUS (AS 19) COMMAND HISTORY FOR CALENDAR YEAR 1986  
(OPNAV REPORT SYMBOL 5750-1)

Ref: (a) OPNAVINST 5750.12D

Encl: (1) Mission, Operational Events and Upkeeps  
\* (2) CO, USS PROTEUS (AS 19) ltr 5400 Ser 01:E-896/1187 of  
22 Aug 86 (Subj: SUBMISSION OF FISCAL YEAR 1986 BATTLE  
EFFICIENCY AND DEPARTMENTAL AWARDS NOMINATIONS FOR  
USS PROTEUS (AS 19))  
(3) CO, USS PROTEUS (AS 19) ltr 1650 Ser 11:X13:1005/1395  
of 9 Oct 86 (Subj: NOMINATION FOR THE FY86 GOLDEN  
ANCHOR AWARD)  
(4) Photograph and Biography of Captain P. W. Middents,  
Commanding Officer  
(5) Welcome Aboard Brochure

1. In accordance with reference (a), enclosures (1) through (5)  
are forwarded.

R. D. AXTELL  
By direction

\* (3 CONF MSG from ENCL. (2) in CLAS file)

## MISSION, OPERATIONAL EVENTS AND UPKEEPS

1. Command Mission and Composition: USS PROTEUS (AS 19) is a forward deployed submarine tender homeported in Apra Harbor, Guam. The primary mission of PROTEUS is to provide logistical support to units of the Pacific Submarine Force deployed to the Western Pacific. PROTEUS makes frequent deployments away from her homeport. PROTEUS' crew is comprised of approximately 1050 enlisted men and 52 officers.

### 2. Chronology:

01 JAN 86	Inport Guam; Med-moored Wharf "A"
12 FEB 86	Underway en route from Guam to Subic Bay, RP
18 FEB 86	Arrived in Subic Bay; Anchorage F-2
25 FEB 86	Underway; Shifted to Rivera Wharf, berths 11 and 12
16 MAR 86	Underway en route from Subic Bay, RP to Hong Kong, BCC
18 MAR 86	Anchored off Tathong Point, Hong Kong, BCC
19 MAR 86	Underway, shifted to Buoy A-51, Victoria Harbor, Hong Kong, BCC
23 MAR 86	Underway en route from Hong Kong, BCC to Chinhae, ROK
28 MAR 86	Anchored Chinhae, ROK
14 APR 86	ROK Commander, Squadron 15 visited
14 APR 86	COMSUBGRU SEVEN visited
18 APR 86	Underway en route from Chinhae, ROK to Guam
23 APR 86	Arrived Guam; Starboard side to Wharf "A"
27 APR 86	Underway; Shifted to Unit Repair anchorage
27 APR 86	COMSUBRON 17 visited
28 APR 86	COMCOASTGUARD Marianas Section visited
01 MAY 86	COMSUBRON 17 visited
02 MAY 86	COMSUBGRU 7 visited
03 MAY 86	COMSUBPAC visited
05 MAY 86	Commander 3rd Air Division USAF visited
08 MAY 86	Commander 3rd Air Division USAF visited
10 MAY 86	Underway; Shifted to starboard side Wharf "A"
20 MAY 86	Underway; Evasion of Typhoon Lola
21 MAY 86	Arrived Guam; Starboard side to Wharf "A"
23 JUN 86	COMSUBGRU SEVEN visited
14 JUL 86	Force Dental Officer from COMSUBPAC visited
03 OCT 86	Underway for typhoon evasion
04 OCT 86	Arrived Guam; starboard side to Wharf "A"
04 OCT 86	COMSUBGRU SEVEN visited
07 OCT 86	COMSUBRON 1 visited
17 OCT 86	COMSUBGRU SEVEN visited
25 OCT 86	Underway; Local area for dependent's cruise
	Arrived Guam; starboard side to Wharf "A"
27 OCT 86	Underway en route from Guam to Chinhae, ROK
03 NOV 86	Anchored Chinhae, ROK
06 NOV 86	CO, Chinhae Shipyard (ROK) visited
09 NOV 86	COMSUBPAC visited
	COMSUBGRU SEVEN visited

10 NOV 86 CO, Chinhae Naval Base (ROK) visited  
 Mayor of Chinhae visited  
 COMFLEACT Chinhae visited  
 Change of Command; Captain P. W. Middents  
 relieved Captain H. A. Oliver, III

16 NOV 86 COMFLEACT Chinhae visited

24 NOV 86 COMFLEACT Chinhae visited

25 NOV 86 Underway en route from Chinhae, ROK to Sasebo,  
 Japan

26 NOV 86 Arrived Sasebo, Japan; starboard side to berth  
 "I-7"  
 COMFLEACT Sasebo visited

30 NOV 86 COMFLEACT Sasebo visited

04 DEC 86 Underway en route from Sasebo, Japan to Hong  
 Kong, BCC

10 DEC 86 Conducted "swing ship" and adjusted compass

12 DEC 86 Arrived Hong Kong, BCC; Buoy "A-29"

17 DEC 86 Underway en route from Hong Kong, BCC to Guam

21 DEC 86 Passed in close vicinity to Typhoon Marge off  
 east coast of Philippines

24 DEC 86 Arrived Guam; starboard side to Wharf "A"

31 DEC 86 Inport Guam; starboard side to Wharf "A"

b. Upkeeps Alongside USS PROTEUS

<u>UNIT</u>	<u>DATES</u>	<u>LOCATION</u>	<u># OF DAYS</u>
USS PERMIT (SSN 594)	28JAN-12FEB 86	Guam	15
USS INDIANAPOLIS (SSN 697)	28MAR-31MAR 86	Chinhae	3
	25FEB-15MAR 86	Subic Bay	18
USS SARGO (SSN 583)	19DEC85-05JAN86	Guam	17
	17JAN-26JAN 86	Guam	9
	07FEB-28FEB 86	Subic Bay	21
	01APR-07APR 86	Chinhae	7
USS TAUTOG (SSN 639)	21FEB-16MAR 86	Subic Bay	13
	03APR-16APR 86	Chinhae	13
USS POGY(SSN 647)	26MAR-16APR 86	Chinhae	21
USS GEORGIA (SSBN 729)	30APR-10MAY 86	Guam	11
USS BREMERTON (SSN 698)	14APR-18APR 86	Chinhae	4
	21JUN-05JUL 86	Guam	14
USS FLASHER (SSN 613)	06JUN-16JUN 86	Guam	10

<u>UNIT</u>	<u>DATES</u>	<u>LOCATION</u>	<u># OF DAYS</u>
USS SALT LAKE CITY (SSN 716)	25JUN-16JUL 86	Guam	21
USS TUNNY (SSN 682)	11SEP-17SEP 86 06OCT-21OCT 86	Guam Chinhae	6 15
USS LOS ANGELES (SSN 688)	08NOV-14NOV 86	Chinhae	6
USS POLLACK (SSN 603)	09NOV-23NOV 86	Chinhae	14
USS GUARDFISH (SSN 612)	03AUG-18AUG 86 09NOV-24NOV 86	Guam Chinhae	15 14
USS DARTER (SS 576)	27NOV-29NOV 86	Sasebo	2
USS BARBEL (SS 580)	27NOV-04DEC 86	Sasebo	7



DEPARTMENT OF THE NAVY

USS PROTEUS AS-19

FPO SAN FRANCISCO 96646-2575

5400

Ser 01:E-896/1187

22 Aug 86

From: Commanding Officer, USS PROTEUS (AS 19)  
To: Commander Submarine Group SEVEN

• Subj: SUBMISSION OF FISCAL YEAR 1986 BATTLE EFFICIENCY AND DEPARTMENTAL AWARDS  
NOMINATIONS FOR USS PROTEUS (AS 19)

Ref: (a) COMSUBPAINST 5400.7C

Encl: (1) Draft Award Package with CPT Disk

1. In accordance with reference (a), enclosure (1) is forwarded for submission as Battle "E" and department award recommendations for PROTEUS for Fiscal Year 1986.

*H. A. Oliver III*  
H. A. OLIVER III

~~CONFIDENTIAL~~  
**DECLASSIFIED**

5400  
Ser 10:E-896/

~~CONFIDENTIAL~~ -- Unclassified upon removal of enclosure (1)

**(2 ITEMS - IN CLAS  
FILE)**

From: Commander Submarine Group SEVEN  
To: Commander Submarine Force, U. S. Pacific Fleet  
Subj: SUBMISSION OF FISCAL YEAR 1986 BATTLE EFFICIENCY AND DEPARTMENTAL AWARDS  
NOMINATIONS FOR USS PROTEUS (AS 19)  
Ref: (a) COMSUBPACINST 5400.7C  
Encl: (1) Supporting commendatory correspondence and message traffic received  
during FY86 (U)

1. In accordance with reference (a), the following award recommendations for COMSUBPAC tenders are submitted for USS PROTEUS (AS 19): The Battle "E", the Supply "E", the Repair "R", the Damage Control "DC", the Deck Seamanship award, the Communications "C" and the Engineering "E".

a. Battle Efficiency Award. USS PROTEUS (AS 19) is nominated for the Battle Efficiency "E" for Fiscal Year 1986. PROTEUS has continued to be the top performer in conduct of submarine and surface ship refits due to the exceptional professionalism and spirit of her officers and men. While maintaining a high tempo of ship repairs, PROTEUS personnel also completed significant material accomplishments to improve PROTEUS services and operational reliability. Specific justifications are as follows:

(1) Retention Statistics: For Fiscal Year 1986, of 133 personnel eligible for reenlistment, 111 were retained for an overall net reenlistment rate of 83.5 percent, gross 76 percent. Reenlistment ineligibles remained at 13 with 4 of the 13 occurring within the last month and a half.

<u>First Term</u>	<u>No. Elig.</u>	<u>No. Non-Elig.</u>	<u>No. Reen.</u>	<u>Net %</u>	<u>Gross %</u>
Nuclear	0	0	0	N/A	N/A
Non-Nuclear	65	10	49	75.4	65.3

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<u>First Term</u>	<u>No. Elig.</u>	<u>No. Non-Elig.</u>	<u>No. Reen.</u>	<u>Net %</u>	<u>Gross %</u>
Total	65	10	49	75.4	65.3
<u>Second Term</u>					
Nuclear	2	0	2	100	100
Non-Nuclear	28	5	25	89.3	75.8
Total	30	5	27	90	77.1
<u>Third Term</u>					
Nuclear	1	0	1	100	100
Non-Nuclear	37	0	34*	91.9	91.9
Total	38	0	35	92.1	92.1
Overall	133	15	111	83.5	75

\* Number includes three transfers to the Fleet Reserve.

(2) Operational Performance. The primary mission of providing repair services to submarines and surface ships in upkeep continues to be accomplished in a superior manner. Every tended unit has remarked that its upkeep has been the best. Laudatory messages and correspondence have increased in magnitude as evidenced by enclosure (1). PROTEUS' truly outstanding operational performance has exceeded JMA goals. A detailed listing of production performance is provided in paragraph 1c.

(3) Tactical Readiness (TRE): Although tactical readiness per se is not evaluated, PROTEUS' operational readiness, measured by her ability to carry out tasks assigned, is absolutely superb. The ship's flawless accomplishment of unique "first ever" tasking: the upkeep of six submarines in Chinhae, South Korea; the upkeep of a TRIDENT submarine in Apra harbor, Guam; and the overhaul of a 688 class SSN emergency diesel engine, is testament to the flexibility and readiness of PROTEUS. More than any other submarine tender in either the Atlantic or Pacific Fleets, PROTEUS meets every challenge anywhere in the



Pacific or Indian Oceans. More detailed discussion of PROTEUS' accomplishment of mission and tasking is contained in paragraph 1c.

(4) Weapons Readiness. The PROTEUS Weapons Repair Department has achieved full capability with assigned weapons.

(a) The Weapons Repair Department completed the following inspections:

1. Torpedo Readiness Assistance Team (TRAT) Inspection,  
18 - 21 February 1986.

2. Shipboard Explosive Safety Survey (SESSI) Inspection,  
4 - 8 November 1985.

3. Torpedo Mounted Dispenser (TMD)/"A" Cable Training,  
5 - 6 December 1985.

4. Arms, Ammunition and Explosives Physical Security  
Inspection, 4 - 8 November 1985.

5. Successfully participated in an island wide Anti-Terrorist  
drill (Exercise Bulldog).

(b) Ordnance Division (W-1) accomplishments include:

1. Completed the following on tended units:

a. Assisted USS FLASHER (SSN 595) on Torpedo Tube #2 muzzle  
door power cylinder valve adjustment.

b. Performed cosmetic repairs and maintenance on one MK 48  
Torpedo and two Harpoon Missiles for USS FLASHER (SSN 595).

c. Performed cosmetic repairs and maintenance on one MK 48  
Torpedo for USS GEORGIA (SSBN 729).

d. Assisted USS BIRMINGHAM (SSN 695) on work package for  
re-plastisol of torpedo dollies.

2. Performed 46 MK 48 Torpedo receipt/transfer inspections,

command wire splicing and Torpedo Mounted Dispenser (TMD) installation/removal.

Received/transferred the following MK 48 Torpedoes and components:

- a. 46 MK 48 Torpedoes.
- b. 47 MK 10 Mod 0 Torpedo Mounted Dispensers (TMDs).
- c. 17 MK 6 Mod 0 Torpedo Control Cables.
- d. 4 MK 48 Mod 1 Training Shape w/Torpedo Mounted Dispenser.
- 3. Refurbished one MK 481 shipping container.
- 4. Cannisterized three MK 10 Mod 0 Torpedo Mounted Dispensers.
- 5. Repaired one Mine Safety Appliance (MSA) Breathing Apparatus.
- 6. Assisted W-2 personnel in Quality Assurance/Weight Test of two Pneumatic Chain Hoists.

7. Completed the following crane lifts in support of PROTEUS and tended units:

- a. 46 MK 48 Torpedo transfers.
- b. 82 Small Arms Ammunition transfers.
- c. 85 Radioactive material (RAM) transfers.
- d. 2,806 General Cargo, Stores, and Weight Test transfers.
- e. Total Crane lifts: 3,019.

8. Weapons Shop handling personnel and IMA/SRF personnel completed the following repairs to the Overhead Travelling Crane (OT).

- a. Conducted 81,000 lb. of weight testing.
- b. Weight tested the crane itself on two occasions.
- c. Adjusted the brakes on two occasions.
- d. Upgraded the jib arms to working specifications.
- e. Repaired stop cut-out switch.
- f. Installed the port and stbd take-up reel motor.

g. Replaced the bearing assembly and shaft for the fore and aft take-up reel.

h. Repaired the fore and aft take-up reel brake.

i. Installed the fore and aft take-up reel motor.

j. Repaired a hydraulic oil leak in the pump room.

k. Replaced ruptured hydraulic lines in the pump room.

l. Installed a new relay for the exhaust blower on two occasions.

m. Drained, flushed and refilled the jib hydraulic system.

n. Drained and refilled hydraulic oil for the bridge and trolley casing on two occasions.

o. Repaired the horizontal movement reactor in the power-house.

p. Replaced the reactor relay for horizontal movement in the power-house.

q. Replaced a relay switch and two broken wires in the power-house for the bridge motor tach return for port and stbd movement.

r. Replaced four diodes in power-house reactor #4 which controls port/stbd movement.

s. Completed an Annual Crane Inspection.

9. Conducted the following Small Arms Training in support of the PROTEUS and tended units:

a. 597 personnel on .45 cal pistol.

b. 210 personnel on M14 rifle.

c. 335 personnel on 12 gauge shotgun.

d. 30 personnel on 20 MM machine gun.

e. 18 personnel on 40 MM machine gun.

- f. 15 personnel on M60 machine gun.
- g. 12 personnel on 50 cal machine gun.
- h. Total personnel qualified on small arms: 1,217.

10. Conducted five Main Armament Gun Firing Exercises, sinking various expendable targets.

11. Replaced/repared the following Magazine Sprinkler System components, assisting shop 56A personnel:

- a. New Pneumatically Released Pilot (PRP) Valves in magazine A-517-M.
- b. 18 new Heat Sensing Devices (HSDs).
- c. 5-inch Rising Stem Valve.
- d. Leaking flange above magazine sprinkler board.
- e. 81 RPM Valves on two occasions.
- f. Two sets of flexible hoses for PRP Valves.
- g. Eight Circle Seal Check Valves.
- h. Tightened all HSD lines.

(c) Fire Control/Weight Test/Quality Assurance Division (W-2) accomplishments include:

1. Fire Control Repair provided the following repair services for tended units:

- a. 12 MK 117 Fire Control Systems.
- b. 6 MK 113 Fire Control Systems.
- c. 1 MK 101 Fire Control System.
- d. 1 CCS MK 1 Fire Control System.
- e. 14 UYK/7 Computers.
- f. 3 RD-281 Disks.
- g. 2 MK 116 By and Rh Indicators.
- h. 2 UYE/2 Disks.

- i. 3 periscopes.
  - j. 6 other Fire Control Systems and CCC equipment.
  - k. Total Fire Control Repair services provided: 50.
- 2. Maintained and operated 2M laboratory.
- 3. Provided four 2M jobs for PROTEUS and tended units.
- 4. Maintained PROTEUS Security Access Listings.
- 5. Maintained the Fire Control and Weapons Department Technical Library.
- 6. Implemented stowage/burning procedures for classified material.
- 7. Conducted training for various units on Fire Control Systems PMS and alignments.
- 8. Performed work and provided technical assistance for the following units:
  - a. USS INDIANAPOLIS (SSN 697)
  - b. USS PORTSMOUTH (SSN 707)
  - c. USS GUARDFISH (SSN 612)
  - d. USS FLASHER (SSN 613)
  - e. USS SALT LAKE CITY (SSN 716)
  - f. USS SAN FRANCISCO (SSN 711)
  - g. USS BIRMINGHAM (SSN 695)
  - h. USS BREMERTON (SSN 698)
  - i. USS GEORGIA (SSBN 729)
  - j. USS PERMIT (SSN 594)
  - k. USS SARGO (SSN 583)
  - l. USS TAUTOG (SSN 639)
  - m. USS BARBEL (SS 580)

n. USS BARB (SSN 596)

9. Completed the following Weight Tests for PROTEUS and tended units:

- a. 304 Wire Ropes and Straps.
- b. 197 Shackles.
- c. 92 Padeyes.
- d. 62 Chain Hoists.
- e. 46 Cargo Slings and Nets.
- f. 31 Lifelines.
- g. 2 Accommodation Ladders.
- h. 41 various other equipment.
- i. Total Weight Test jobs: 775.

10. Swaging and Wire Rope Shop manufactured the following in support of PROTEUS and tended units:

- a. 304 Wire Straps.
- b. 31 Lifelines.
- c. 10 Cargo Slings.
- d. Total manufactured: 345.

11. Quality Assurance performed the following Audits/QA coverage for PROTEUS and tended units:

- a. Conducted 3 Navy Ammunition Logistics Code (NALC) audits per week.
- b. 22 Small Arms Training shoots.
- c. 5 Ammunition/Pyrotechnics transfers to tended units.
- d. 20 MK 48 Torpedo transfers.
- e. Extension of shelf life for 3 Torpedo Mounted Dispensers (TMDs).

f. 675 Weight Test jobs.

g. Missile Crane.

h. 2 Overhead Monorails.

12. Implemented Divisional Safety Program.

(5) Material Readiness. PROTEUS continues to excel and improve its outstanding condition of material readiness. In particular, the superb condition of the main propulsion spaces is exceptionally noteworthy, as demonstrated during the WESTPAC deployment. During a recent 3M Inspection, for which PROTEUS received an overall grade of satisfactory, improvement was noted in the overall 3M structure and the inspectors commented on the enthusiasm and energetic attitude by crew members toward proper PMS accomplishment. A detailed listing of major work accomplished is provided in paragraph 1g.

(6) Supply Readiness. The PROTEUS Supply Department has continued to improve and expand its superior existing services in the areas of logistic procurement and support. Support is consistently of the highest quality and success, despite the remote geographical location of PROTEUS. A detailed listing of major accomplishments is provided in paragraph 1b.

(7) Communications Readiness. PROTEUS Communications Division, while having always provided exceptional communications support, has performed in a particularly outstanding manner during this period. They have achieved listing on the WESTPAC Low Manual Intervention Honor Roll for all but two months during FY86. A detailed listing of achievements is provided in paragraph 1f.

(8) Training Exercises. PROTEUS continues to maintain an extensive underway/in port training program despite the inherent demands for in port production and repair of tended units. The training program is highly effective in maintaining and improving ship handling skills, damage control readiness, general seamanship and professional and military training. During transits,

every training opportunity is seized upon to provide optimum training benefit including:

- Anchoring
- Contact tracking and reporting
- Piloting, radar and visual
- Open ocean navigation
- Man overboard, frequent and unscheduled
- Flaghoist
- Battle problems with live ordnance firing
- At sea damage control

In port training includes frequent damage control drills. General Military Training (GMT) is provided during the work week via CCTV and stresses safety, military topics, and substance abuse awareness. The safety training and heightened awareness of hazardous material and hazardous evolutions have certainly contributed to a decrease in industrial accidents as borne out by yearly statistics.

(9) Morale. Despite the high tempo of operations PROTEUS crew morale remains extremely high, attributable to an excellent command environment and high job satisfaction. Over 150 personnel opted to extend their tours on board PROTEUS. An aggressive watch qualification program has resulted in the qualification of 9 Command Duty Officers, 4 Officers of the Deck (underway), 72 Officers of the Deck (in port), 17 Junior Officers of the Watch, and 9 Combat Information Center Watch Officers. In addition, three persons were designated as Surface Warfare Officer and five as Enlisted Surface Warfare Specialist. An aggressive awards program ensures recognition of outstanding professional performance. PROTEUS recreation programs are quite extensive. The sports program includes intramural, island-wide (Guam), and inter-unit competition.



Recreational facilities at Polaris Point continue to be upgraded and are the best on Guam, sought after by other island military commands. The Special Services program provides for a multitude of activities on Guam and in foreign ports, including the subsidizing of most sports and desired tours. Off duty education programs have been well received and included 38 students in Central Texas College programs, 27 students in University of Maryland programs, 2 students in Guam Community College programs, and 1 in the University of Guam program. As a result of PROTEUS' efforts, a working, recreational and educational environment exists that is constructive and meets the desires and aspirations of the crew. Discipline is fair, yet firm and consistent. Captain's Mast averages just over one case per week. Substance abuse statistics for PROTEUS are probably the lowest for a Pacific large afloat command.

(10) Inspections. During FY86, PROTEUS has been evaluated by inspections in the following areas:

<u>Inspector</u>	<u>Type</u>	<u>Date</u>	<u>Evaluation</u>
COMSUBGRU SEVEN	CRE	Sep 85	Excellent
COMSUBPAC	QA	Oct 85	Satisfactory
COMSUBPAC	MMI	Oct 85	Satisfactory
CINCPACFLT	RCPE	Nov 85	Average
NAVSEASUPPCENPAC	SESS	Nov 85	Satisfactory
NAVSEASUPPCENPAC	AA&E Physical Security	Nov 85	Satisfactory
NUSC	Torpedo Mounted Dispenser/ A Cable	Dec 85	No Grade assigned
COMSUBPAC	MWR	Dec 85	Satisfactory
COMSUBGRU SEVEN	RAD Health	Dec 85	Above Average
COMSUBPAC	SMI	Jan 86	Satisfactory
SRF, Guam	EMI Visual	Feb 86	Satisfactory

NAVHOSP, Guam	Environmental Health/ Industrial Hygiene	Feb 86	Satisfactory
NAVSEASUPPCENPAC	TRAT	Feb 86	Outstanding
COMSUBGRU SEVEN	3M	Apr 86	Satisfactory
COMSUBGRU SEVEN	Command Security	Apr 86	Satisfactory
SPAWAR	Radiac Cal Lab	May 86	Highly Satisfactory
COMSUBGRU SEVEN	RAD Health	Jun 86	Satisfactory
PROTEUS	Crane	Jul 86	Satisfactory
COMSUBPAC	Dental Admin	Jul 86	Outstanding

All inspection teams commented on the outstanding cooperation of PROTEUS personnel and the excellent condition of the areas inspected.

(11) Logistic and Material Support. In addition to the items mentioned in the preceding paragraphs, the following support was provided:

(a) Medical Department

1. Outpatient visits (regular sickcall patients): 5,521
2. Inpatient visits (admissions to ward): 20
3. Admission to quarters: 140 (145 patient days)
4. Laboratory tests: 5,619
5. Audiograms: 150
6. Electrocardiograms: 85
7. Pharmacy units dispensed: 3,800
8. X-ray film exposures: 525
9. Physical examinations: 339
10. Limited services (surgical clinic, wart clinical, TB followup, etc): 3,964
11. Immunizations: 796
12. Medical Officer substance abuse evaluation/counselling: 91

- 13. Number of days in home port: 292
- 14. Number of days at sea: 20
- 15. Number of days in other than homeport: 52
- 16. Radiation Health Program Audits of tended units: 9
- 17. Radiation Health Program Training Audits: 1
- 18. Radiation Health Program Services:
  - a. Lithium Fluoride TLDs issued: 235
  - b. Film Badges issued: 393
- 19. The Medical Department continued to provide outstanding support to the fleet in FY86, in addition to providing routine medical services.
- 20. Inter-departmental training is conducted at least several times per week with monthly written examinations. Daily reviews and critiques of the previous day's cases are also conducted. Shipwide training was also conducted in accordance with COMSUBPACINST 1400.24. Given the aggressive training program in conjunction with safety, no serious or life threatening injuries were sustained. Medical also enjoyed a 50 percent reduction in sexually transmitted diseases, attributed to aggressive crew education. The following are but a few examples of PROTEUS' commitment to continuing education:
  - a. Two attended NADSAP.
  - b. One attended ARS Training.
  - c. Two certified C-4, ATLS and ACLS.
  - d. Four RADCON qualified.
  - e. Nine CASCON qualified.
  - f. Five EMT certified.
  - g. Ten DC qualified.
  - h. Ten 3M qualified.
  - i. Three Pest Control certified.

1. Ten CPR qualified.

21. The Preventive Medicine/Environmental Health programs have seen vast improvements, most noteworthy being in the areas of hearing conservation, hazardous material surveillance, and the PPD converter program. Through the efforts of the Preventive Medicine Technicians (PMT), these programs have been fully implemented, and are now routine. Weekly sanitation inspections conducted by the PMT have brought to the forefront discrepancies in environmental health. Due to this aggressive approach PROTEUS now enjoys shipboard habitability second to none.

22. The Medical Department personnel continued to provide support to the fleet, other Naval commands and the civilian community at large, from volunteering off-duty time to support Guam's Special Olympics, to providing medical support and logistics to 13 other ships, including the first TRIDENT overseas upkeep with a tender. In addition to conducting QA Audits and Radiation Health Audits to tended units Medical supported six units in Chinhae, South Korea, as well as supporting their limited medical shore facilities. Further, the Navy population in Hong Kong was supported with the General Medical Officer and internal medicine. Medical supported the Subic Bay, R.P. hyperbaric chamber with both physicians and corpsmen during treatment as well as assuming the Bends Watch. The PROTEUS Medical Department supports the Naval Hospital, Guam with emergency room and internal medicine watches and with lectures in hyperbaric medicine and radiation health. The local diving communities are also supported with lectures from PROTEUS' Undersea Medical Officer. The Medical Department supported two special operations with PROTEUS personnel, and the PROTEUS Undersea Medical Officer assisted COMSUBPAC in revising the SS, SSN, SSBN and TRIDENT Authorized Material Allowance Lists (AMAL).

PROTEUS' Medical Department continues to demonstrate pride, professionalism, and flexibility and exhibits the wherewithal to be considered second to none in support of the fleet.

(b) Dental Department

1. The PROTEUS Dental Department provided high quality comprehensive dental treatment in port, as well as during deployed periods and at sea. For the period 1 October 1985 to 30 September 1986, a total of 21,969 procedures were documented. Generated by the meticulous screening of incoming personnel and the monitoring of an already effective dental recall program, Dental Combat Readiness of PROTEUS personnel increased from 87 percent to 93 percent. During this period, 13 alongside submarines were rendered direct dental treatment. An aggressive and thorough Dental Fleet Liaison Program screened all records and ensured maximum attention for any potential dental problems. Eleven submarines departed at 99 percent or better Dental Combat Readiness status, and two others were 97 percent or better. PROTEUS Dental, while deployed in Chinhae, South Korea, greatly increased active duty dental readiness of the proximate naval support activity personnel and provided much needed dependent dental treatment. A recent on board Administrative Inspection of the dental spaces by COMSUEPAC Force Dental Officer was rated outstanding. PROTEUS Dental was particularly noted for excellent departmental records and files, and for maintaining an outstanding reputation of genuine concern for PROTEUS crewmembers.

2. Statistical information is as follows:

a. Dental Treatment Procedures: 21,969, including:

- |                                |                  |
|--------------------------------|------------------|
| (1) Submarines                 | 5,134 procedures |
| (2) Fleet Activity Chinhae     | 265 procedures   |
| (3) Naval Detachment Hong Kong | 24 procedures    |

b. Dental Combat Readiness of PROTEUS personnel: 93%

c. Combat Readiness of tended units: 1 = 97%, 1 = 98%,  
5 = 99%, and 6 = 100%.

d. Force Dental Officer Inspection: 14 - 17 July, overall  
excellent.

e. Commendatory Letters of Appreciation:

(1) USS TAUTOG - alongside 14 November 1985

(2) COMFLEACT Chinhae - 29 March - 18 April 1986

(c) Legal. During the period 1 October 1985 - 1 September 1986,  
PROTEUS' Legal Office provided the crew individual legal assistance as well as  
providing legal and administrative service for administrative and disciplinary  
actions. Statistics are as follows:

1. Clients seen since 1 October 1985: 1,200
2. Total number of documents prepared: 2,000
  - a. Powers of Attorney - 400
  - b. Wills - 63
  - c. Affidavits - 134
  - d. Bills of Sale - 7
  - e. JAG Manual Investigations - 6
  - f. Promissory Notes - 3
  - g. Legal Assistance (correspondence) - 415
  - h. Claims - 20
  - i. Other - 170
3. Captain's Mast:
  - a. Captain's Mast Cases - 55
  - b. Total Number of Cases prepared for Mast - 110

4. Special Courts-Martial:

a. Total Number of Special  
Courts-Martial - 5

5. Summary Courts-Martial:

a. Total Number of Summary  
Courts-Martial - 2

6. Administrative Discharges:

a. With Administrative Boards - 11

b. With No Administrative Boards - 9

(d) Naval Reserve Training. During Fiscal Year 1986 all Naval Reserve units assigned to PROTEUS performed annual ACDUTRA on board, three during the WESTPAC deployment and the fourth during the TRIDENT upkeep. The reservists played a key role during the very intense upkeep period in Subic Bay, providing superb support by conducting an audit of the Radiation Health Program Dosimetry and Training records, and assisting in repairs of seawater system valves on submarines in upkeep and the installation of a seawater pump following completion of repairs. Underway periods allowed for many reserve training activities not normally available, including anchoring in heavy fog. PROTEUS rapidly assimilated reservists into mobilization billet divisions to ensure that they worked closely with ship's force during all evolutions, thus enhancing mobilization readiness and morale through intense training and superb support. All units had rewarding and satisfying ACDUTRA periods which provided the opportunity and basis for sustaining unit retention.

b. Supply Department. The following information is provided in support of the nomination for the Supply "E":

(1) The Supply Department has made tremendous improvements in all functional areas during FY86. The goal of the department has been to provide the

best possible logistics support to the submarines of the Pacific Fleet and to the Intermediate Maintenance Activity. To accomplish this goal, the policies of accomplishing today's work today and of covering all work practices with documented operating procedures have been in effect for a year. No storekeeper, disbursing clerk, ship's serviceman, mess management specialist, data processing technician, or Supply Corps officer leaves the ship each day until all work is proven to have been completed. A total of 162 Supply Department Operating Instructions covering every facet of work within the department have been written. These two basic policies and a major effort by all hands in the department to improve significantly the material condition of the Supply spaces have resulted in superb, documented performance by PROTEUS' Supply Department. The pursuit of excellence is seen not in words or measures of input, but in results achieved. Net supply effectiveness for the year has averaged 90.5 percent, well above the Force goal of 85 percent and a significant improvement over the prior year. Gross supply effectiveness has averaged 75.5 percent, again above the Force goal. These two basic measures of supply support reached a peak of 95.7 percent and 84.4 percent, in May 1986, the period encompassing the forward TRIDENT refit conducted in Guam. This improvement in supply support has been made possible by tremendous efforts to improve inventory management. Zero balance rates for A/T Code 1 through 4 material has been reduced from 16.4 percent to 6.4 percent in one year. Storeroom issue processing time frames have been reduced to 4.98 days from 13.5 days as measured during the January 1986 SMI. Posting time on NIS/NC requisitions has been reduced to 3.3 days, down from the 10.4 days as measured during the January 1986 SMI. SUADPS input document error rates have been reduced from 47.0% to 2.9% in one year. Unauthorized material has been removed from the ship to allow better storekeeping of the proper material. Unauthorized long supply has been reduced from \$4,133,000 (20.7 percent of SAL) to \$238,154



(1.3 percent of SAL). Unauthorized on order has been reduced from \$1,016,000 (4.8 percent of SAL) to \$60,677 (0.3 percent of SAL). Receiving operations have been completely redesigned. For the entire period subsequent to the February to April 1986 deployment when these new receiving procedures have been in place, receipt processing time has plummeted. From 17.6 days total tailgate to MRF time frame as measured during the January 1986 SMI, 90 percent of all receipts are now posted in 3.36 days and 100 percent are posted in 4.91 days. The total restructuring of receiving procedures has served as well to assist in the improvement in unmatched receipts. Total unmatched receipts have been reduced from \$9,389,122 to \$2,324,283 (less than twice the average monthly receipts of \$1,355,775 for the past 12 months). Overaged unmatched receipts have been reduced from \$5,770,897 to \$391,764. The overaged documents are now 3.3 percent of total documents (within the Force goal of 5 percent and significantly lower than the 29.0 percent of a year ago). Overaged dollar value is 16.9 percent of total unmatched, down from 61.5 percent a year earlier. Gross inventory adjustments for the year are exactly at the Force goal of 5 percent of throughput, down from 6.6 percent the prior year. In virtually every area of supply financial and inventory management, PROTEUS is now equal to or better than Force goals. All this has been achieved in one year's time. The following subparagraphs document the accomplishments of each of the Supply Department's eight divisions.

(2) Stores Division (S-1)

(a) Stores Division is responsible for the receipt, stowage, and issue of 70,000 line items of material totalling over \$16,000,000 of inventory. During this fiscal year PROTEUS accomplished several major achievements in which Stores Division played a major role. Several first-ever events were recorded and new logistics management procedures were implemented. Throughout the entire

year the basic tenets of storekeeping have been continuously emphasized with improving results in almost every area of inventory management. Highlights of this year's accomplishments are as follows:

1. In April of 1986 PROTEUS was the site of the first forward refit for a TRIDENT submarine. The ship anchored in outer Apra Harbor to accommodate the deep draft of the TRIDENT. The logistical problems created by having to bring massive quantities of supplies by boat were resolved by careful coordination between PROTEUS and Site. The Stores Division was charged with coordinating the boat schedule for the entire Supply Department to assure the smooth flow of material, food, and trash and garbage from ship to pier and back. The overwhelming success of the TRIDENT refit has set the stage for possible future forward refits.

2. In late March and early April of 1986, PROTEUS conducted the first submarine refits at Chinhae, South Korea. A logistical pipeline was organized through unfamiliar territory. Due to the sudden closure of Taegu Air Base, the Stores Division arranged transportation to the nearest commercial airport, two hours away, to pick up and drop off material, maintaining the flow of material to tended units. Material handling equipment was scarce and much of the material had to be manually loaded onto the ship's LCM-8. In spite of the obstacles, that division continued to deliver the sort of outstanding service that has earned it the title of "Workhorse of the Fleet." The success of "SUBASE Chinhae" led to the scheduling of future refits in Korea.

3. In June of 1986 SUADPS-RT was implemented aboard PROTEUS. The transition to SUADPS-RT was the smoothest aboard any naval vessel that the NAVMASSO implementation team had experienced. SUADPS-RT added new responsibilities, transferring the function of entering stock receipts and issues to the Stores Division from the Stock Control Division. This was accomplished with

virtually no perturbations. The enhanced management tools provided by SUADPS-RT allowed a decrease in both receipt and issue processing times. Receipt processing time from tailgate to stow has dropped to 4.9 days. Observers from NAVMASSO DET PAC stated that this was the shortest receipt processing time of any tender they had visited. All priorities of material are being issued the same day the requisitions are received in the Stores Division. Issue processing is being accomplished within three days during the normal work week for the majority of non-bearer walk-thru requisitions. S-1 Division has implemented several programs in order to improve inventory validity and customer responsiveness:

a. An inventory consolidation program was effected to eliminate quadruple locations, and reduce the number of duplicate and triplicate locations. The program involves a systematic reduction in duplicate locations by approximately 100 line items per week, and will result in approximately 2000 line items being reduced to one location.

b. A location validation program, currently in progress, is resulting in the discovery of many items previously lost or misplaced. Storeroom storekeepers are emptying bins and comparing their contents to the Master Record File. Approximately 20% of all shipboard storerooms have been validated thus far. Each validated location is then logged for subsequent audit by the Supply Q/A Team.

c. An aggressive inventory program has been implemented for the summer overhaul period involving approximately 15 storerooms and over 10,000 line items. Storerooms were selected on the basis of high NIS rates.

d. A rigorous preservation schedule is in effect that will result in the represervation of all divisional storerooms by the middle of fiscal year 1987.

e. 98 percent of all DLR's are now stowed in one storeroom to allow complete monitoring and supervision of these high value items. Two man control of all receipts and issues is maintained at all times. The July 1986 physical wall to wall inventory of DLR's provided a 100% inventory accuracy.

4. Although PROTEUS does not have tended units alongside at all times, a large volume of submarine requisitions throughout the Pacific is supported:

a. In the last four months the Stores Division has processed approximately 660 requisitions a month from units in the Pacific.

b. Approximately 70 requisitions a day are filled from the PROTEUS alone.

c. Twenty Tiger Teams have been supported by the rapid issue and shipment of material to locations all over the Pacific Basin.

5. The following level of support requires constant movement of stock to and from the ship:

a. The T-Shed processes approximately one flat bed of material each day.

b. Approximately 65 line items are received onboard each day for stocking.

c. Approximately 70 line items are offloaded each week.

d. Approximately one ton of scrap material is processed by the T-Shed each month for shipment to the local DRMO.

(b) The Stores area is where submarine support succeeds or fails. It is succeeding on PROTEUS. A review of the critique sheets submitted by 20 submarines supported during fiscal year 1986 demonstrates one common denominator -- support is consistently outstanding. The submarine Supply Officers state that "S-1 anticipates our needs and meets them," and "S-1 makes our refits

easy." Such words are a tribute to the dedicated efforts of the members of the Stores Division.

(3) Food Service Division (S-2)

(a) The Food Service Division has upgraded its facilities and capabilities significantly during the past year. New galley and bakeshop equipment was installed during the last Incremental Overhaul phase. New deck tiling has been laid and all storerooms have been represerved.

(b) In support of WESTPAC submarine operations, \$196,425.15 of provisions were transferred to tended units this year.

(c) Throughout the year the breakout team has maintained an average of 97 percent validity. This has been achieved through meticulous recordkeeping and close attention to detail in issue and receipt of processing. This is a significant improvement over the inventory validity of one year ago.

(d) The "Old Pro Diet Den" was opened this year offering a selection of low calorie foods and salads.

(e) A revised six week cycle menu was developed which has improved not only food preparation abilities but also has improved the logistic planning required for loadouts and breakouts.

(f) The Food Service Division was graded "outstanding" during this year's Supply Management Inspection and is Commander Submarine Group SEVEN's large afloat nominee for the FY87 NEY Award.

(4) Ship's Store Division (S-3)

(a) Great strides forward were made in the Ship's Store Division this year. There has been an increased emphasis on visual merchandising in the Ship's Store, soda fountain, and Uniform Center operations. As a result funds available for transfer to MWR have increased from \$15,000 in September 1985 to nearly \$28,000.00 in May 1986. In 1986 nearly \$46,000 has been made available for MWR

in comparison to \$28,000 made available during 1985. Stock turns of 1.95 and 2.47 were realized also, a significant improvement over previous years. Video games were brought aboard this year and over \$20,000 has been collected from them, an average of \$2,500 per month of which PROTEUS retains 40 percent in port and 50 percent while deployed.

(b) During the last Incremental Overhaul two washers and one dryer were replaced in the ship's laundry and presently the other two washers and two dryers are being replaced. Additionally, the ship's dry cleaning machine is being replaced with two new units which will greatly improve the ship's capability to provide dry cleaning service to the crew. Over the past year the ship's laundry processed 40,213 pounds of rough laundry and 13,347 pounds of uniforms requiring washing and pressing.

(c) The ship's barbers provided over 4000 haircuts this year, an average of 450 per month.

(d) The Sales Division was nominated by Commander Submarine Force, U. S. Pacific Fleet for NAVSUP's Best Sales and Service Award for 1986.

(5) Disbursing Division (S-4)

(a) The Disbursing Office continued to provide superior comprehensive fiscal service to PROTEUS and tended units.

(b) The big event this year was the implementation of UMIDS. A new work space layout was formulated, including expansion of the space to accommodate the new computer system and to improve customer service. The UMIDS implementation went smoothly, encountering no major problems. The implementation team commented that it was one of the easiest implementations due to the enthusiasm of divisional personnel.

(c) Over 1000 travel claims were liquidated this year, within the 10 day time limit and with a 99 percent accuracy rate. Dealers' bills totaling in

excess of \$400,000 were processed within three days of receipt. Checks totaling over \$100,000 were cashed each month while maintaining complete control over all funds.

(d) The division received a grade of "Outstanding" during this year's Supply Management Inspection.

(6) Stock Control Division (S-5)

(a) 1986 was a banner year for Stock Control Division. Through intensive training, attention to detail, and a lot of hard work, improvements have been made in virtually every area of stock control management. There are now SUADPS updates run daily, with at least one reorder each week. With the implementation of SUADPS-RT in May and June, numerous management aids have been made available to PROTEUS which have allowed Stock Control to more effectively and efficiently manage its inventory. As a result, improvements were made in all the following areas:

1. SUADPS error rates have been reduced from 20 percent in September 1985 to 2.9 percent in July 1986.
2. Unauthorized long supply has gone from \$776,790 (4.3 percent of Ship's Authorized Level) in September 1985 to \$238,154 (1.3 percent of Ship's Authorized Level) in July 1986.
3. Unauthorized on order has been reduced from \$300,051 (1.5 percent of Ship's Authorized Level) in September 1985 to \$60,672 (0.3 percent of Ship's Authorized Level) in July 1986.
4. Gross monetary adjustments have been driven down from 19.10 percent of throughput in September 1985 to 4.93 percent of throughput in July 1986.
5. Total unmatched expenditures have decreased from \$7,490,555 in September 1985 to \$4,513,854 in July 1986 (as reported by FAADCPAC).

6. Overaged unmatched expenditures have decreased from \$4,620,362 in September 1985 to \$1,738,017 in July 1986 (as reported by FAADCPAC).

7. Gross effectiveness has increased from 68.4 percent in September 1985 to 78.2 percent in July 1986.

8. Net effectiveness has increased from 84.5 percent in September 1985 to 92.3 percent in July 1986.

(b) As the above data indicates, Stock Control has significantly improved its performance over the past year and is working to perform at an even higher level in FY87.

(7) SUBSAT Division (S-6)

(a) Submarine Supply Assistance Team (SUBSAT) Division has been especially effective during FY86. As always, the division processed ROV tended unit, ROV self, ROV indirect, tender S&E DTO, and tended unit stock and DTO requisitions. SUBSAT has become superb at requisition control; 100 percent control over each and every requisition handled has become the norm.

(b) In FY86 SUBSAT serviced 20 submarines during alongside refits. Over 7,400 boat replenishment requisitions were processed. The average effectiveness for these requisitions was 92 percent gross and 93.8 percent net. Additionally, remote refits were conducted supporting 20 Tiger Teams and processing all the associated emergent requisitions. Requisitions for units not in refit were also processed, amounting to more than 1,700 requisitions. Many of the upkeeps performed by PROTEUS are short notice/emergent types. Therefore, parts are not normally identified until day one of the refit. In spite of this, during FY 86 SUBSAT worked 3372 jobs and only 122 jobs were not completed due to nonreceipt of parts.

(c) SUBSAT monitors over 400 FRI 02 requisitions on a daily basis,



maintaining an up to date hotlist to assist RPPO's in planning work requiring material. Boat monitors and expenditures actively expedite within the supply system and throughout the transportation system.

(d) Always looking for ways to improve, SUBSAT has developed 53 Supply Department Operating Instructions (SDOI), covering everything from MOV and document control procedures to requisition processing procedures. These have improved the operation immensely, made for better customer service and greatly facilitated cross training capabilities.

(e) The Supply Technical Library has become much more effective. Constant training in this area and the development of an easy to use but complete SDOI has improved the ability to identify any item and locate a source of supply. It is truly a mini-research area.

(f) The Boat Monitor concept has been totally revised. Now, as units come into refit, a single specific individual is assigned who has complete control and accountability for all material requirements, both ROV and ship's S&E, and will accomplish massive expediting for these requirements.

(g) BPA/open purchase has also improved immensely. Written operating instructions, a massive effort to resolve old problems, and on the job as well as formal training have all resulted in a well run and efficient operation. For the year 47 BPA's and 16 contracts for a total money value of \$39,912 have been processed.

(h) This year SUBSAT assumed responsibility for DLR carcass tracking, an immense undertaking. Beginning with 143 delinquent carcasses, there are now only 89 carcasses outstanding, of which only 26 are over 30 days old. A total of 265 carcasses have been tracked and located.

(i) Beginning this year the division seriously undertook a massive DTO Material Obligation Validation. Validations are now performed after each

upkeep and quarterly for general PROTEUS DTO requisitions. To date 1,457 cancellation requests on obsolete requisitions have been submitted and 216 requisitions completed as a result of these efforts.

(j) This year SUBSAT has dealt with some unique challenges. In October 1985 a unit arrived alongside with a massive diesel casualty. The refit was so complex that it lasted 55 days. SUBSAT was up to the challenge, processing 1,109 requisitions, all extremely critical to the upkeep, including both an upper and lower crankshaft.

(k) The three month deployment to Subic Bay, R.P. and Chinhae, South Korea was probably the greatest challenge to date. Logistic channels were extremely taxed but SUBSAT rose to the occasion, obtaining requisitioned material for PROTEUS, the IMA, and the units alongside. Major obstacles overcome were:

1. The ship was at anchor and, therefore, without telephones.
2. The shore command had only one AUTOVON line for all to share.
3. The nearest air cargo terminal was Taegu AB, which was unexpectedly closed for runway repairs. Therefore, all cargo had to come and go through commercial sources, presenting a real challenge to the material expeditor.

(l) Upon return to homeport in late April PROTEUS began her first ever TRIDENT upkeep. Although at anchor and again without ready telephone access, all the material needed for jobs and all of the unit's urgent S&E requirements were obtained. During this upkeep 1,258 unit S&E requisitions and 237 ROV requisitions were processed.

(m) SUBSAT was instrumental in the SUADPS-RT Release 2.1 implementation. Training was intensive, instructions were written and, as a result, the

system works well.

(8) ADP Division (S-7)

(a) Automated Data Processing (ADP) Division provided extremely accurate, timely, and efficient data processing services for SUADPS, SJUMPS, and IMMS information processing systems. Major hardware and software conversions were installed during this period. Major accomplishments during this period are as follows.

1. Developed and implemented a rigorous DP/DS PQS program, of which copies were requested by SUBPAC inspectors for possible dissemination to other SUBPAC tenders.

2. Developed and implemented an ADP SORM which received several verbal accolades from SUBPAC inspectors and was cited by commendatory remarks in the SMI critique.

3. Completely implemented SUADPS Real Time software in a two week time frame. Received comments from the implementation team that the installation was the "smoothest implementation they had seen." This software upgrade provided more efficient and up-to-date information regarding all facets of the Supply system.

4. Brought on line 47 remote terminals and 15 ASPI 10 printers for customers.

5. At present, the four DPS-6 computer systems (one host system, one data entry system for use by the Supply Department and two remote processing systems for use by Repair, Medical, Dental, Administration, Engineering, Deck, and Weapons departments) are on line 24 hours a day, seven days a week with less than 6 percent software down time.

6. Hardware downtime is "the best in SUBPAC," with less than 4 percent.

7. Developed local programs for use by Medical, Dental, MAA, and Weapons departments.

8. Automated the DPS-6 spare parts inventory for parts supports of all ADP equipment.

9. Developed and implemented over 50 Supply Department Operating Instructions (SDOI's).

(9) Supply QA Division (S-8)

(a) The Supply Quality Assurance (QA) Division has conducted 700 audit trails for stock material where there is a discrepancy between actual storeroom quantity and stock record quantity. In the process of conducting these audit trails QA has worked to identify previous erroneous inventory adjustments and has recommended corrective action, resulting in greater inventory validity, savings of hundreds of thousands of dollars in inventory adjustments, better trained and more professional storekeepers, and greater file and record accuracy.

(b) Supply QA has screened in excess of 3500 NIS/PNIS requisitions and N/C requisitions in attempts to locate the requested material or identify substitutes. These efforts have contributed to greater supply effectiveness, fewer outstanding requisitions, improved location validity, and increased readiness for Supply Department customers.

(c) Supply QA has performed more than 300 spot inventories per month to identify stock material which is not accurately accounted for in the Master Record File. In the process, tens of thousands of dollars of "lost" material for retention or offload has been located, resulting in better use of scarce storeroom space, the completion of outstanding overage stock requisitions and helped with unmatched expenditure processing.

(d) Supply QA has assisted in identifying dozens of items that are

potentially overpriced and has notified proper authority for further screening under the BOSS program.

(e) S-8 has submitted dozens of Reports of Discrepancy (ROD) and Quality Deficiency Reports (QDR's). This ongoing effort ensures that Supply Department customers receive material which is high quality and in the prescribed quantity. It further ensures that defective and potentially hazardous supply system stock is identified and disposed of.

(f) S-8 has developed an annual inventory schedule designed to ensure that inventories required by higher authority are conducted with the appropriate periodicity and that proper reports are submitted.

(g) During the first three quarters of FY86 the division consisted of one or two personnel whose primary mission was to conduct audit trails of high dollar value items such as DLR's and other sensitive material. S-8 now consists of one officer and three enlisted personnel with plans to add a senior chief storekeeper and two more enlisted personnel during the first quarter of FY87. A recently requested microcomputer will assist with managing workload, performing trend analysis, and producing periodic reports useful to managers. Soon new QA functions will be assumed, related to the Retail Sales and Food Service operations. These functions will include conducting inventories and performing audits. The breadth and depth of the Supply Department QA Division's responsibilities have increased and will continue to increase. The services the QA Division is providing to its customers are bigger and better than ever.

c. Repair Department. The following information is provided in support of the nomination of PROTEUS for the Repair "R".

(1) The cumulative performance of the Repair Department has been superior. PROTEUS continued to support submarine work as well as surface ships, service craft, Coast Guard vessels and shore activities while deployed as well

as in Guam. A summary of refits and significant jobs accomplished is as follows:

	PRODUCTION	PRODUCTION	
	MAN-HOURS	MAN-HOURS	PRODUCTION
<u>MONTH</u>	<u>AVAILABLE</u>	<u>EXPENDED</u>	<u>INDEX</u>
September 85	36,536	21,647	.592
October 85	36,160	27,953	.773
November 85	32,536	34,040	1.046
December 85	40,872	22,968	.561
January 86	38,872	20,905	.537
February 86	30,608	17,698	.578
March 86	20,872	20,889	1.000
April 86	35,824	12,194	.340
May 86	42,160	21,473	.509
June 86	43,608	25,030	.573
July 86	40,920	34,168	.834
* August 86	22,520	20,687	.918
Total	421,488	279,652	.663

\* Through 15 August 1986

<u>TENDED UNIT</u>	<u>AVAILABILITY DATES</u>	<u>TOTAL JOBS</u>	<u>MAN-HOURS EXPENDED</u>
SSN 707	04SEP85 - 24SEP85	169	7,897
NAVSTA/YTB'S	04SEP85 - 15SEP85	21	124
AS 19	09SEP85 - 20SEP85	109	5,758
WLB 388	14SEP85 - 27SEP85	40	1,688
WPE 95306	30SEP85 - 11OCT85	12	530
AFS 4	07OCT85 - 22NOV85	107	2,316

SSN 596	19OCT85 - 07NOV85	315	12,878
SSN 695	19OCT85 - 13DEC85	171	15,785
SSN 715	04NOV85 - 10NOV85	73	1,768
SSN 639	08NOV85 - 16NOV85	106	3,825
AFS 7	09DEC85 - 18JAN86	39	467
SSN 583	16DEC85 - 05JAN86	198	5,713
WLB 388	06JAN86 - 17JAN86	40	1,091
SSN 594	27JAN86 - 11FEB86	137	5,883
SSN 583	18FEB86 - 28FEB86	12	939
CVN 65	19FEB86 - 01MAR86	4	231
CGN 41	19FEB86 - 01MAR86	7	196
SSN 639	24FEB86 - 14MAR86 04APR86 - 16APR86	334	15,843
SSN 697	25FEB86 - 15MAR86	132	5,550
SS 580	28MAR86 - 30MAR86	10	392
SSN 647	28MAR86 - 08APR86	78	2,971
SSN 583	02APR86 - 07APR86	33	1,325
SSN 698	08APR86 - 04MAY86 22MAY86 - 05JUN86	112	12,311
SSBN 729	01MAY86 - 10MAY86	62	3,400
AS 19	02JUN86 - 18OCT86	73	8,802
SSN 613	16JUN86 - 06JUL86	127	8,611
SSN 716	25JUN86 - 16JUL86	163	10,002
AS 19	14JUL86 - 18OCT86	455	50,528
NAVSTA/YTB's	30JUL86 - 29AUG86	6	732
SSN 612	03AUG86 - 17AUG86	89	6,942
AFS 7	07AUG86 - 31AUG86	16	1,294
AFS 3	07AUG86 - 31AUG86	12	753

USS PORTSMOUTH (SSN 707):

1. Repaired TD-46 actuator.
2. Repaired VH-2 induction valve.
3. Repaired vibration reducer oil leak.
4. Repaired BRA-34 antenna.
5. Repaired evaporator.
6. Repaired HPD trap HPD-148.
7. Replaced lead hydraulic accumulator quad rings.
8. Replaced make up feed demineralizer union.
9. Calibrated 172 mechanical, electrical and electronic gauges.

NAVSTA GUAM/YTB'S:

1. Repaired cargo pump.
2. Manufactured deck plates.
3. Repaired steering system on YTB-776.
4. Repaired three P-250 pumps.

USS PROTEUS (AS 19):

1. Repaired antenna test tank for shop 67H.
2. Repaired submarine access brows.
3. Replaced towing winch.
4. Overhauled No.1 HPAC.
5. Installed ABT switch for steering gear motor.
6. Overhauled stbd B & A crane motor.
7. Replaced six Ship's Alongside Diesel generator cables.

USCG BASSWOOD (WLB 388):

1. Rebuilt firepump.
2. Rebuilt chill water pump.
3. Manufactured A/C compressor endbells.



4. Manufactured ship's awnings.
5. Rebuilt ship's potable water tank.

USCG CAPE GEORGE (WPB 95306):

1. Manufactured emergency tiller arm.
2. Repaired towing reel.
3. Troubleshoot and repaired main propulsion engines.
4. Replaced fresh water tank piping.
5. Replaced bridge windows.

USS WHITE PLAINS (AFS 4):

1. Rebuilt distillate pump.
2. Repaired hot water heater valve.
3. Repaired firemain piping.
4. Repaired auxiliary condensate pump.
5. Repaired and set relief valves.
6. Repaired steering gear.

USS BARB (SSN 596):

1. Repaired port & stbd main engine throttles.
2. Repaired high pressure brine pump.
3. Replaced T-Cold RTD.
4. Replaced ASW duplex strainers.
5. Completed 130 sheet metal jobs.

USS BIRMINGHAM (SSN 695):

1. Overhauled emergency diesel engine.
2. Replaced HP-121.
3. Overhauled sanitary pump.
4. Overhauled two main induction fans.

5. Overhauled No.1 MSW pump.
6. Repaired steering and diving accumulator.
7. Repaired fairwater plane cracks.

USS BUFFALO (SSN 715):

1. Repaired lead hydraulic pump.
2. Overhauled steering and diving accumulator.
3. Repaired MK-19 gyro.
4. Repaired No.1 ASW pump.
5. Repaired stbd hydraulic pump.

USS TAUTOG (SSN 639):

1. Overhauled high pressure brine pump.
2. Repaired ASW-202, -63 and -57.
3. Repaired aft signal ejector.
4. Replaced AN/BRA-34 antenna ice cap.
5. UT of 14 ASW valve bodies.

USS SAN JOSE (AFS 7):

1. Repaired steering unit.
2. Repaired main boiler.
3. Repaired inhaul/outhaul winches.

USS PINTADO (SSN 672):

1. Repaired main engine throttles.
2. Repaired HPD-66, -112, -114, -141 and -143.
3. Repaired SD-187, -115, -125 and -38.
4. Repaired AS-31 and -114.
5. Repaired HPD trap.
6. Repaired ASW-256, -532 and -776.
7. Repaired SGF-52.

8. Stoned sliprings on three M/G sets.

USS TAUTOG (SSN 639):

1. Replaced trim pump.
2. Replaced No. 2 ASW pump mechanical seal.

USS SARGO (SSN 583):

1. Repaired CUNO filters.
2. Repaired TD-37 and -37A.
3. Repaired trim pump.
4. Repaired high pressure brine pump.
5. Troubleshoot and repaired A/C plant.
6. Repaired CAMS.
7. Replaced main engine throttle seats.
8. Repaired No.3 ASW pumps.

USCG BASSWOOD (WLB 388):

1. Built divers' cage.
2. Replaced hatch in fwd berthing.
3. Overhauled fire and flushing pump and motor.

USS PERMIT (SSN 594):

1. Replaced shore power hull insert.
2. Replaced AN/BRD-7.
3. Installed MK-37 anti-rifle device.
4. Repaired aft escape hatch.
5. Repaired lead and main hydraulic accumulator.
6. Overhauled MK-19 gyro cabinet.
7. Repaired aft signal ejector.
8. Repaired RFFW cooler leak.

USS SARGO (SSN 583):

1. Replaced stbd main engine throttle seats
2. Electroplated rudder ram.
3. Replaced tunnel floor covering.
4. Replaced main feed pump.
5. Repaired CV-51.

USS ENTERPRISE (CVN 65)

1. Provided non-destructive testing services for reactor plant materials.
2. Overhauled No. 4B2 reactor plant fresh water pump.
3. Provided vibration analysis, troubleshooting and repair services for No. 1A Coolant Pump Turbine Generator.
4. Provided ultrasonic inspection services to measure main condenser shell steam erosion.

USS ARKANSAS (CGN 41)

1. Stoned turbine generator slip rings.
2. Provided cardio-pulmonary resuscitation training to ship's force.
3. Rewound reactor compartment ventilation fan motor.

USS TAUTOG (SSN 639):

1. Repaired CO2 scrubber.
2. Refurbished weapons shipping hatch.
3. Rebuilt trim pump.
4. Repaired HOV-3.
5. Replaced diesel engine cam shaft.
6. Cleaned and repaired #2 400 KZ M/C set.
7. Troubleshot and repaired Dial-X telephone system.
8. Rebuilt No.1 A/C ASW pump.
9. Rebuilt #1 MSW pump.

10. Repaired TY 18 periscope.

USS INDIANAPOLIS (SSN 697):

1. Repaired TD-5 and -76.
2. Overhauled drain motor and pump.
3. Overhauled No.6 main induction fan.
4. Repaired CH-22.
5. Cleaned 10K evaporator.
6. Repaired AS-1.
7. Completed 20 sea water valve IMMPS.
8. Troubleshoot and repaired HS-155.

USS BARBEL (SS 580):

1. Repaired MK-19 gyro.
2. Repaired main engine exhaust water jacket.

USS POGY (SSN 647):

1. Repaired AS-3.
2. Repaired MS-71.
3. Repaired HPD-71 and 143.
4. Repaired No.2 400 HZ M/G set.
5. Repaired topside line locker hatch.
6. Repaired TY 18 periscope camera and electronics and repacked upper bearing.

USS SARGO (SSN 583):

1. Overhauled distillate pump motor.
2. Repaired piping on 4K still.
3. Repaired 4K evaporator, vapor compressor and distillate pump.
4. Repaired No.1 main feed pump motor.

USS BREMERTON (SSN 698):

1. Replaced radar mast.
2. Replaced VO-3.
3. Replaced No.3 ASW pump mechanical seal.
4. Repaired whistle door.
5. Accomplished 51 seawater valve IMMPs.
6. Overhauled trim priming pump.
7. Repaired cracks on port fairwater plane.
8. Repaired ACB 902H breaker for reactor coolant pump.
9. Overhauled three auxiliary drain pump motors.
10. Troubleshoot and repaired MK-27 Mod 1 gyro.
11. Replaced HPD-48 and -50.
12. Repaired AS-42.
13. Troubleshoot and repaired No.1 ERA-34.

USS GEORGIA (SSBN 729):

1. Repaired 10KW M/G set.
2. Repaired 3K still mechanical seal.
3. Repaired HP brine pump desurger.
4. Repaired No.2 CO2 scrubber amine motor.
5. Replaced snorkel electrode.
6. Aligned lifting rod on Type 15L scope.
7. Troubleshoot and repaired MK-27 gyro.
8. Repaired AHP-17.
9. Replaced No.2 MSW pump mechanical seal.

USS PROTEUS (AS 19):

1. Replaced lighting distribution panel.
2. Installed sonic cleaner in hydraulic shop.

3. Rebuilt vacuum pump motor.
4. Manufactured seven safety nets.
5. Replaced four Ship's Service Diesel Generator cables.

USS PLUNGER (SSN 595):

1. Repaired TD-114 and -28.
2. Repaired trim priming pump.
3. Repaired hydraulic accumulator.
4. Repaired turbine generator.
5. Stoned No.1 SSMG slip ring.
6. Repaired No.2 43 KW motor generator.
7. Repaired secondary propulsion motor.

USS FLASHER (SSN 613):

1. Replaced Type 15 scope.
2. Repaired battery exhaust motor.
3. Converted resonance changer from rubber bonded to solid pistons.
4. Replaced dither filter.
5. Repaired DRAI and EM log.

USS SALT LAKE CITY (SSN 716):

1. Overhauled VH-3, -4 and -5.
2. Repaired AN/BRA-34.
3. Repaired AS-4.
4. Repaired steering and diving hydraulic accumulator.
5. Repaired stern planes ram.
6. Repaired ASW-11, -12, -221 and -222 (RPFW Isolations)

USS TUNNY (SSN 682):

1. Repaired hydraulic leak on aft capstan.
2. Resurfaced slip rings on No. 1 and 2 300 KW SSMG.

3. Replaced HPD 18 and 20.
4. Repaired HPD-61 trap manifold.
5. Cleared low ground of 1.8 megohm to specification on No.2 400 HZ M/G.
6. Manufactured valve stems for SD-193 and SD-194.
7. Repaired oil leak on lead hydraulic accumulator.
8. Overhauled vital flood control accumulator.
9. Replaced O-ring and mechanical seal on lead hydraulic pump

USS GUARDFISH (SSN 612)

1. Replaced AN/BQN-17 transducer.
2. Repaired AN/ERA-23 antenna.
3. Rewound main induction fan.
4. Restored TD-164 stem cavity.
5. Repaired aft signal ejector muzzle ball valve.

USS PROTEUS (AS 19):

1. Enlarged and renovated disbursing office.
2. Restored No. 2 fire pump.
3. Rewound No. 3 fire and flushing/emergency ballast pump motor.
4. Completed SHIPALT to install high efficiency filters in the Nuclear Support Facility ventilation system.
5. Completed SHIPALT to install heat sealing machine in the Nuclear Support Facility.
6. Restored anchor windlass hydraulic motor and selector valve.
7. Installed new x-ray machine in NDT lab.
8. Replaced five watertight doors.

(2) In addition to upkeeps conducted alongside PROTEUS, twenty tiger teams were deployed to forward sites throughout WESTPAC to accomplish repairs on submarines and other nuclear powered ships. These tiger teams accomplished



repairs ranging in complexity from lagging renewal and stoning of motor generator commutators and slip rings to replacement of main engine throttle seats and poppets. A summary of PROTEUS tiger teams follows:

DATE	NO. OF PERSONNEL	SHIP	DESTINATION
05SEP85 - 19SEP85	3	SSN 672	Yokosuka, JA
27SEP85 - 06OCT85	13	SSN 684	Subic Bay, R.P.
18OCT85 - 30OCT85	5	SSN 672	Yokosuka, JA
24NOV85 - 01DEC85	10	SSN 684	Subic Bay, R.P.
30NOV85 - 09DEC85	2	SSN 684	Subic Bay, R.P.
11DEC85 - 26DEC85	23	SSN 672	Yokosuka, JA
22DEC85 - 30DEC85	6	SSN 639	Singapore
16JAN86 - 28JAN86	14	SSN 583	Subic Bay, R.P.
23JAN86 - 03FEB86	3	SSN 597	Yokosuka, JA
08FEB86 - 18FEB86	15	SSN 583	Subic Bay, R.P.
22FEB86 - 26FEB86	5	SSN 595	Yokosuka, JA
04MAR86 - 13MAR86	4	SSN 647	Yokosuka, JA
28MAR86 - 07APR86	8	SSN 613	Yokosuka, JA
13JUN86 - 23JUN86	17	SSN 595	Subic Bay, R.P.
13JUL86 - 21JUL86	4	SSN 595	Subic Bay, R.P.
16JUL86 - 07AUG86	15	SSN 682	Subic Bay, R.P.
28JUL86 - 30JUL86	1	CVN 65	Subic Bay, R.P.
17AUG86 - 08SEP86	6	SSN 579	Subic Bay, R.P.
19AUG86 - 25AUG86	6	SSN 602	Yokosuka, JA
26AUG86 - 09SEP86	13	SSN 603	Sasebo, JA

(3) Some particularly significant items are worthy of special mention:

(a) Overhaul of USS BIRMINGHAM (SSN 695)'s emergency diesel engine.

This overhaul, a first for an intermediate maintenance activity, required

lifting the engine block, rigging both upper and lower crankshaft out of the ship, replacement of all pistons and cylinder liners and rebuilding the scavenging air blower.

(b) During a nineteen day period of fleet support in Chinhae, South Korea, PROTEUS tended six submarines and accomplished 12,000 manhours of submarine work.

(c) Crew exchange and upkeep of USS GEORGIA (SSBN 729). This was the first WESTPAC upkeep of an SSBN 726 Class submarine and the first upkeep of an SSBN 726 Class Submarine alongside an afloat intermediate maintenance activity.

(d) After the grounding of the containership AMERICAN LEGION at the entrance to Apra Harbor, PROTEUS provided diving service to survey vessel damage and assist in refloating the vessel with minimal environmental damage.

(e) Replacement of USS FLASHER's resonance changer pistons. This repair had been scheduled for shipyard accomplishment during FLASHER's next Selected Restricted Availability but was accomplished by PROTEUS during a three week WESTPAC upkeep.

(f) Developed and implemented a revised Radiological Controls Training program which resulted in significant improvement in personnel level of knowledge as evaluated by the Nuclear Propulsion Examination Board. This resulted in improvements over the ship's previous performance during the November 1985 Radiological Controls Practices Evaluation.

(4) PROTEUS provides additional and unique functions to tended units in WESTPAC:

(a) Arrival inspections are conducted on a submarine's trim and drain systems, fairwater planes, electronic and communication systems, floating wire antenna, underwater hull, periscopes, masts and antennas to identify

additional problems for correction.

(b) PROTEUS is the only maintenance activity in the Western Pacific that performs maintenance on nuclear propulsion plants.

(c) PROTEUS contributed significantly toward the AFS phased maintenance program as demonstrated by availabilities on USS SAN JOSE (AFS 7), USS NIAGARA FALLS (AFS 3) and USS WHITE PLAINS (AFS 4).

(5) PROTEUS has received numerous commendatory messages and letters citing the productivity, quality and operational sensitivity of the works performed by the Repair Department. These are included in enclosure (1).

d. Damage Control. The following information is provided in support of PROTEUS' nomination for the Damage Control "DC". The following improvements in damage control readiness have been accomplished:

(1) Submitted a SHIPALT proposal to NAVSEA for protected stowage of in-use flammable liquids. Enclosures included an inventory of all flammable liquids on board and location of all flammable stowage lockers.

(2) ER09 received an overall score of 91% during a SUBPAC 3-M inspection conducted in March 1986.

(3) Seventy-five fire drills have been conducted since October 1985 for the Duty Damage Control Team (DDCT) and Rescue and Assistance (R&A) Detail.

(4) Initiated a Damage Control Education and Training Team (DCETT) to conduct self imposed refresher training for general quarters repair lockers. Conducted nine battle problems while underway which included fires, flooding and structural damage.

(5) Since October 1985, ER09 has recharged 150 151b CO2 cylinders, including 50 for tended units; replaced 16 watertight doors, 4 watertight hatches, 4 fire strainers, and 10 deck drains; and repaired 32 deck drains and 22 watertight hatches.

(6) Manufactured and installed two fire stations on the pier to assist the Rescue and Assistance detail in responses to pierside casualties.

(7) The DC training workcenter conducts a 5 day DC class during each "I" division for reporting personnel which includes fundamentals, theory, and practical application. Personnel attending the general DC class pass the 100 question DC exam 80 percent of the time on first attempt.

(8) Since October 1985, the DC training workcenter has qualified 241 personnel in general DC PQS.

(9) DC Division conducted qualification and refresher training for PROTEUS Fire Marshals and Scene Leaders. This training consists of theoretical as well as practical knowledge. Direct results of these seminars was the qualification of seven Fire Marshals and five Scene Leaders.

(10) Practical training was conducted three times per week (six hours per week) for all primary and alternate PROTEUS Damage Control Petty Officers (DCPO). The results of this training were realized in a recorded accomplishment rate of 95 percent of DC PMS.

(11) PROTEUS maintains an aggressive DC spot check program of all 32 divisional DCPO's. Training and direct command attention resulted in a PMS confidence factor in excess of 96 percent.

(12) DC Division participated in on board CHT system training conducted by Fleet Training Group (FTG), Yokosuka, Japan. Twelve personnel from DC Division were instructed in the proper operation, maintenance, and peculiar safety hazards of CHT systems.

(13) All general quarters repair locker personnel received fire fighting team training from FTG, Yokosuka. Training consisted of practical, theoretical, and fundamental knowledge.

(14) Six DC Division personnel participated in and graduated from P-250

pump repair school conducted by FTG.

(15) DC Division accomplished the following repair/maintenance items:

(a) Removed/replaced five CHT system sewage discharge pump assemblies, significant in the fact that repairs were all effected under emergent conditions.

(b) Expended approximately 400 OBA cannisters during drills and training.

(c) Repaired 54 OBA assemblies.

(d) Updated the repair locker inventory system, which resulted in the dramatic reduction in loss or lack of accountability of repair locker materials.

(e) In support of shipyard overhaul, gas freed and inspected 12 voids and over 70 valves while effecting repairs to shipboard drainage and ballast system piping.

(f) Provided operational and technical support during SRF, Guam hydroblasting of ship's heads.

(g) Provided operational and technical support during SRF, Guam overhaul of the Countermeasure Washdown system.

e. Deck Department. The following information is provided in support of the nomination of PROTEUS for the Deck Seamanship Award.

(1) USS PROTEUS Deck Department has earned it's outstanding reputation for being able to provide secure mooring arrangements and small boat services to any class of submarine in support of PROTEUS' mission and Submarine Force, Pacific Fleet. Operations during FY86 included a deployment to Subic Bay, R. P., Hong Kong, and a first ever submarine upkeep alongside in Chinhae, South Korea; another "First" in a TRIDENT submarine moored alongside in outer Apra Harbor, Guam for crew exchange; and one smoothly executed typhoon evasion sortie on four hour notice.

(2) Deck Department accomplishments during the Fiscal Year include:

(a) Subic Bay - ship rode at anchor for eight days with Deck providing 24 hour boat service to fleet landing and SRF for PROTEUS and tended unit. A massive preservation effort was conducted on board and small boats not in use were overhauled. Deck Department also maintained a picket boat during hours of darkness for harbor security, amounting to 298 total boat hours.

(b) Hong Kong - PROTEUS moored to a buoy in Hong Kong harbor. The deep draft harbor pilot praised the mooring evolution stating that it was the most well organized and professional moor conducted by any naval ship visiting Hong Kong.

(c) Chinhae, South Korea - ship rode at anchor while supporting the first-ever submarine refit in Korea. Within two hours of letting go the anchor, PROTEUS had moored a submarine alongside and all ship's small boats were in full service for the ship and tended unit. Deck provided liberty boat service around the clock, utility boat service dedicated to the IMA and tended units, and Captain's Gig to provide first rate boat service for visiting dignitaries. Total small boat hours were 714. Boat crews were sharp, seamanlike and professional even in the most adverse of weather conditions. Deck Department was always prepared to provide secure moorings for several small Korean utility craft, a Korean A0 for fuel onload, and three submarines moored alongside.

(d) Apra Harbor, Guam - PROTEUS anchored in outer Apra harbor in a three point moor to provide a secure mooring arrangement for a TRIDENT class submarine. This first ever mooring arrangement was carefully planned and flawlessly executed. Small boat service consisted of 24 hour security picket boats; 24 hour liberty boat service; LCM-6 trash removal service; LCM-8 stores loading service; and gig for the Commanding Officer, visiting flag officers and dignitaries. Total boat hours amounted to 914. Once again boats and boat crews

were sharp in keeping with the reputation of Deck Department and were constantly praised by ship's force and visitors alike. Deck Department planned and built a movable boat landing facility at Sumay Cove Marina to provide a secure landing and to shorten the boat run time from the outer harbor.

(3) PROTEUS Deck Department material status is outstanding as a result of careful attention to detail and maximum use of tended availabilities. Highlights of major maintenance work accomplished during the year include:

(a) Forward anchors and chains: removed, inspected, painted and weight tested.

(b) Forward anchor windlass: reworked and weight tested.

(c) Stern anchor windlass: Transmission reworked and weight tested.

(d) Forward cargo booms: Weight tested.

(e) Port and Starboard Motor Whale Boat Davits: class BRAVO overhaul, arms removed and foundations reworked and weight tested.

(f) Submarine access brows: overhauled and weight tested.

(g) Ship accommodation ladders: overhauled, outriggers replaced, and weight tested.

(h) All ship's boat skids were completely reworked and pads replaced.

(i) MWB-1 and 2, OMB-1 and 2, Captain's Gig, utility boat 1 and 2 and the LCM-8 were all completely overhauled including preservation, fiberglass work, boat beading, and fenders. Ship's boats are all operational and present a 4.0 appearance.

(j) All exterior spaces, weather decks and sides were preserved as part of a on-going massive preservation effort. This never-ending push on proper preservation and painting has resulted in PROTEUS' appearance being remarkable in spite of her age and the highly corrosive weather in Guam.

(k) Annual component inspection of ship's boat and aircraft cranes.

In accordance with NSTM, ship's cranes underwent detailed exhaustive component inspections ensuring their ability to safely conduct lifts in support of PROTEUS' mission.

(1) All ship's and submarine alongside mooring lines were replaced to ensure safe mooring evolutions including "Med Moor" spring-lay messengers.

(4) Deck Department strived for and achieved a high state of readiness due to a major emphasis on crew training. Personnel were routinely moved within the department to ensure all rated Boatswain's mates and Deck Seamen received a well-rounded education on the ship's capabilities. Extensive training was conducted on anchoring, mooring (including "Med Moor" at Site III Guam), rigging accommodation ladders and boat booms, launch and recovery of ship's boats, cargo boom safety and operation, the ship's Boat and Aircraft Crane operation and safety, mooring units alongside and line handling safety, and preservation of ship's spaces and hull. All aspects of marlinspike seamanship were exercised in making ship's mooring lines, splicing spring lay and wire rope, manufacturing Jacob's ladders, and boat fenders. The art of fancywork was revived in making an impressive knot board display for the ship's quarterdeck. Of note is the fact that although classroom style training was conducted routinely, the majority of deck training was accomplished by the hands-on method during many varied evolutions.

(5) Deck Department underwent an audit of the ship's Boat and Aircraft Crane qualification program resulting in the satisfactory re-certification of both cranes, and successfully passed a recent TYCOM 3-M inspection.

(6) Deck Department routine services include:

(a) 24 hour crane services for PROTEUS and tended units including precision lifts of submarine masts and antennas. PROTEUS has conducted 1,906 lifts during the year with no incidents.



(b) Boat services for liberty runs, trash off-load, stores, or at-sea personnel transfers to tended units. Total boat hours for FY86 amount to an astounding 2,355 accident free hours.

(c) Sideboys for all official visits or special functions.

(d) Paint issue for PROTEUS and tended units.

(e) Manufacture of mooring lines, heaving lines and Jacob's ladders for tended units.

(f) Line handlers.

(7) Deck Department did extensive research into submarine fendering systems, which resulted in PROTEUS being fitted out with the new Universal Submarine Fender System which will be lighter and smaller than existing marine fenders, thus allowing for ease of stowage and rigging.

(8) Retention statistics within the department are 100 percent across the board, including 9 for 9 first term re-enlistments. Six nondesignated seamen struck for Boatswain's Mate and 15 went to other shipboard ratings. Eleven personnel attended functional skills classes. Each quarter of the past year a member of Deck Department was selected as either the senior or junior PROTEUS Sailor of the Quarter.

(9) Despite the high tempo of daily operations and inherently hard work, deck force morale remains extremely high. They are known shipwide as a high spirited "can-do" group of professional sailors. Deck has the proven ability to bring submarines alongside and provide boat and crane service while moored anywhere in the world.

f. Communications Division. The following information is provided in support of the nomination of PROTEUS for the Communications "C".

(1) The Communications Division of PROTEUS has continued to provide that "Old Pro" team work spirit. They have provided outstanding communications

support for Commander, Submarine Group SEVEN Representative Guam; Submarine Refit Site, Guam; twelve fast attack submarines and one TRIDENT submarine. PROTEUS' message center processed over 70,000 incoming and over 10,000 outgoing messages in the past year. Of significance, all outgoing messages must be processed manually. On the GMCC broadcast, PROTEUS has consistently been in the forefront in reliability. The pride, professionalism and efficiency of the communications watch team has resulted in an overall 3.5 percent average manual intervention rate for the past year, the lowest of any ship in the Western Pacific. During this fiscal year PROTEUS assumed the communications guard for 12 fast attack submarines and one TRIDENT submarine. PROTEUS deployed in February 1986, tending 6 units while in Chinhae, South Korea, a first in WESTPAC.

(2) PROTEUS' Communications Division provides various services to all tended units. Included are communication circuit checks, special circuit checks, general message support, COMSEC support, commercial refile, MARS station operations and Armed Forces Courier service. The CMS Office processed more than 15,000 pounds of ARFCOS material including 3,800 pounds from the TRIDENT, which was completed in only four days. ARFCOS service is provided around the clock, 365 days per year. Special Intelligence services were also provided by PROTEUS Communications personnel whenever required by tended units.

(3) PROTEUS' Communications Division successfully completed a Communications Readiness Evaluation (CRE) with 15 of 16 areas receiving the maximum score and one receiving a score of 99 percent, overall, an almost perfect rating.

(a) A formal CMS Inspection was held on board by NAVSECGRU, Guam, NAVCAMS WESTPAC, Guam and COMSUBGRU SEVEN. This resulted in the PROTEUS CMS account receiving an outstanding, with an overall score of 98 percent. Comments included a statement that it is "the best afloat unit account seen by the

inspecting officials."

(b) During April 1986 PROTEUS' Communications and Operations personnel underwent a security inspection conducted by COMSUBGRU SEVEN, receiving a score of outstanding.

(4) On 2 January 1986, PROTEUS' Communications personnel responded to a medical emergency received over communication circuits from USS BREMERTON, resulting in the following commendatory comments from CTF-74. "The highly professional swift response provided by USS PROTEUS to a potentially life-threatening injury on USS BREMERTON was superb. The PROTEUS Medical and Communications personnel displayed the highest order of teamwork which allowed the doctor to diagnose and treat the patient over the radio. Their skill at this most difficult task made it seem almost routine."

(5) While in port and following underway from Chinhae, South Korea, the Communications Division participated in CINCPACFLT's HF Mobile communications network exercise, successfully receiving and relaying Emergency Action Messages on a variety of frequencies. From February to May 1986 PROTEUS Communications personnel successfully completed two Esteem Highly Alfa's, one Esteem Highly Charlie, one Esteem Highly Golf, one Esteem Highly Hotel and one HICOM Responsiveness Test; proving once again the professional team work demonstrated by the Communications Division.

(6) The devotion and professionalism exhibited by the Communications Division has been recognized by various commands as the best in WESTPAC. Their willingness to go beyond their normal job responsibilities is exceptional. Considering underway times, the variety and quality of service/tasks performed, the rapid rotation of personnel and the "Old Pro Can Do Spirit," the PROTEUS Communications Division fully deserves the Communications "C".

g. Engineering Department. The following information is provided in sup-

port of the nomination of PROTEUS for the Engineering "E".

(1) PROTEUS' Engineering Department was consistently capable of short notice underway operations. Typhoon evasions and deployments to Subic Bay, R. P., Hong Kong, and Chinhae, South Korea were fully supported. The Engineering Department consistently demonstrated superior readiness in operating and maintaining propulsion and auxiliary equipment on this 42 year old ship.

(2) PROTEUS has continued to demonstrate superior material readiness and operational excellence. As demonstrated by PROTEUS' recent deployment to Subic Bay, R. P., Hong Kong, and Chinhae, South Korea, the auxiliary and propulsion material readiness has attained a superior posture. PROTEUS was consistently able to maintain maximum speed and the auxiliary equipment (boiler, evaporators, air conditioning units and generators) provided nearly trouble free support to PROTEUS and tended units. The cleanliness and preservation of the Engineering spaces are certainly among the best of any of the tenders, old or new.

(3) During the recent deployment, while anchored out, PROTEUS' Engineering Department provided services to as many as three units simultaneously while fully supporting the requirements of PROTEUS. Additionally, while anchored in outer Apra Harbor, PROTEUS' Engineering Department satisfactorily provided services to a TRIDENT submarine, a first time event by any submarine tender.

(4) Four individuals qualified as Engineering Officer of the Watch.

(5) PROTEUS' Engineering Department completed the following major work items during the Fiscal Year 1986:

(a) Replaced Forward Scullery garbage grinder.

(b) Overhauled and upgraded No. 3 Dryer.

(c) Installed, repaired, upgraded, troubleshot and conducted an operational test of No. 1 High Pressure Air Dehydrator.

- (d) Replaced the 4th stage head gasket, and 5th and 6th stage seals on No. 2 HPAC.
- (e) Overhauled No. 1 and 2 HPAC's.
- (f) Repaired and conducted an operational test on No. 2 H.P. Air Dehydrator.
- (g) Repaired/replaced high speed pinion bearing on the starboard anchor windlass.
- (h) Replaced/repairs filter tank assembly on dry cleaning plant.
- (i) Overhauled/repairs air side of No. 4 LPAC.
- (j) Assisted the Electrical Repair Division in replacing motor bearings for topping starboard B&A crane.
- (k) Hydrostatically tested H.P. air coolers on No. 1 HPAC.
- (l) Repaired manual topping brake on starboard B&A crane.
- (m) Installed new laundry press.
- (n) Repaired oil pumps on No. 3 and 4 LPAC's.
- (o) Repaired worn gear and bearings on No. 2 Dryer.
- (p) Repaired garbage grinders (CPO, After Scullery, Forward Scullery).
- (q) Overhauled No. 1 dry cleaning press.
- (r) Repaired/replaced 22 L.P. air valves, 16 H.P. air valves, and 43 steam valves.
- (s) Replaced heat exchanger on No. 2 LPAC.
- (t) Repaired booster heater forward scullery.
- (u) Repaired centrifugal and mechanical brake on starboard boat davit.
- (v) Repaired linkage for rotation controls on starboard B&A crane.
- (w) Conducted nitrogen charge to seven tended submarines.
- (x) Conducted oxygen charge for USS SARGO.
- (y) Removed/replaced Elliott LPAC 1st stage impeller, 2nd stage

impeller, 3rd stage impeller and overhauled intercoolers.

(z) Overhauled engines for OMB-2, OMB-3, 40' UTB, 50' UTB, MWB-1, LCM-6.

(aa) Repaired five each PE and P-250 pumps.

(bb) Repaired/replaced shafts, strut bearings, stern tube bearings on LCM-8, 40' UTB, OMB-2, MWB 1 and 2.

(cc) Overhauled steering systems in 40' UTB and OMB-2.

(dd) Overhauled No. 1, 2, 3, 4, 5, and 6 saltwater pumps.

(ee) Overhauled No. 1, 2, and 3 reefers.

(ff) Installed new condensing unit on walk-in reefer (EDF).

(gg) Replaced package A/C units in ADP, R-1, and Radio Central.

(hh) Overhauled CPO package A/C.

(ii) Repaired No. 1 SSDG static exciter.

(jj) Replaced grounded SAS cable 01-50-3A.

(kk) Overhauled No. 1 and 2 SASDG circuit breakers (2 each).

(ll) Conducted major and minor repairs to missile crane electrical system.

(mm) Repaired No. 1 50KW M/G controller set.

(nn) Repaired emergency generator voltage regulator.

(oo) Replaced bearings on No. 1 and 2 fire flushing pump motor.

(pp) Repaired No. 3 LPAC.

(qq) Repaired No. 5 propulsion motor.

(rr) Replaced grounded SAS cable 01-71-C.

(ss) Repaired aft propulsion control switchboard.

(tt) Overhauled governor and injector shop A/C package.

(uu) Repaired No. 6 main propulsion generator.

- (vv) Overhauled No. 1 SSDG exciter.
- (ww) Repaired CHT floater motons and circuit.
- (xx) Repaired No. 3 LPAC.
- (yy) Repaired fwd propulsion ABT.
- (zz) Repaired emergency diesel starting circuit.
- (aaa) Repaired 100 KW M/G feeder breaker.
- (bbb) Overhauled No. 1 100 KW M/G set motor.
- (ccc) Resurfaced No. 1 50 KW M/G set grooved commutator.
- (ddd) Resurfaced No. 3 propulsion motor grooved commutator.
- (eee) Repaired SAS shore power mound.
- (fff) Repaired No. 4 SSDG cables.
- (ggg) Repaired emergency bus ABT.
- (hhh) Repaired various laundry and galley equipment.
- (iii) Repaired ship's dimension 2000 telephone exchange.
- (jjj) Installed 1MC microphone control station and general alarm contact maker in DCC.
- (kkk) Overhauled wind detection system.
- (lll) Upgraded ship's closed circuit television system.
- (mmm) Overhauled nuclear waste alarm system.
- (nnn) Installed security "Push to Talk" buttons on all circuit J ship service telephone handsets.
- (ooo) Fabricated new alarm system for communication vault.
- (ppp) Repaired engine room alarms in both forward and aft spaces.
- (qqq) Overhauled ship's electrically operated whistles.
- (rrr) Repaired Supply Department Security Alarm system.
- (sss) Overhauled and preserved all weatherdeck call signal station and sound powered jack boxes.

(ttt) Provided ship's service telephones, sound powered telephones and ship's CCTV and cable television to all tended units.

(uuu) Repaired Shaft revolution indicator and transmitter.

(vvv) Overhauled ship's fire and flooding alarm system.

(www) Repaired temperature alarms for 02N2 plant.

(xxx) Repaired No. 1 and 2 400 HZ motor generators.

(yyy) Repaired all four ship's air compressor electrical systems.

(zzz) Replaced lighting ABT for after mess decks.

(aaaa) Developed and implemented PQS for battery charging.

(bbbb) Replaced navigational lights on all small boats.

(cccc) Overhauled electrical systems on six ship's boats.

(dddd) Conducted troubleshooting, flushing, and testing of the installed and spare emergency diesel governors on a 594 Class submarine.

(eeee) Rebuilt 16 fuel injectors for a Cruiser (CGN).

(ffff) Rebuilt 8 fuel nozzles for a U. S. Coast Guard Buoy Tender.

(gggg) Successfully conducted diesel inspections on No. 1 SAS, No. 2 SSDG, No. 4, 5, and 6 Main Engine, No. 3 SSDG and No. 4 SSDG.

(hhhh) Hot flushed lubricating system of No. 3 SSDG and 1 SASDG.

(iiii) Overhauled 12 power packs on No. 2 SSDG.

(jjjj) Replaced 36 flexible hoses in forward engine room.

(kkkk) Ran flank speed for 2 days from Philippines to Hong Kong, and again ran flank speed for 5 continuous days from Korea to Guam.

(llll) Hot plant steaming from 12 February to 23 April 1986.

(mmmm) Rewrote all Engineering Operating Procedures to conform with most current COMSUBPAC instructions and NSTM Chap 79.

(nnnn) Established new training program, putting more emphasis on increased awareness on whole engineering environment, providing for better



safety, watch standing, and equipment life.

(oooo) Held Basic Engineering Casualty Control drills to assure proper casualty control and to obtain maximum readiness at all times.

(pppp) Revised diesel engine trend analysis program to exceed standards thus ensuring prompt analysis of diesel engines at all times.

(qqqq) Proven flexibility by ability to get underway, and anchor out in harbor to supply services to TRIDENT Class Submarine and command.

(rrrr) Replaced No. 1 and 2 Boiler's gage glass.

(ssss) Calibrated and conducted operational tests of boiler automatic combustion and feed water control of No. 1 and 2 boilers.

(tttt) Performed firesides, watersides, and hydrotests of No. 1 and 2 boilers.

(uuuu) Installed two Ameroyal pumps for evaporators and performed operational test.

(vvvv) Replaced boiler safety valves.

(www) Replaced deteriorated piping of "C" fresh water manifolds.

(xxxx) Assisted boiler inspector during annual boiler inspection.

(yyyy) Installed two new fresh water pumps.

(zzzz) Successfully conducted emergency diesel generator inspection.

(6) PROTEUS' Engineering Department has continued it's superior record in main propulsion, auxiliary and support areas throughout 1986. It is strongly recommended for a third consecutive Engineering "E" Departmental Award.

2. In summary, USS PROTEUS has continued to demonstrate exceptionally high productivity through superior financial, material, and human resource management. The obvious concern for personal development throughout the chain of command provides the foundation for an outstanding environment for crew morale and is a strong basis for the superb retention program. PROTEUS' outstanding readiness

and responsiveness to its submarine and surface ship support mission are continually in evidence. Exceptionally high standards of performance and behavior are reflected in the smart appearance of the crew and the ship and well documented in the messages and correspondence received from satisfied customers as provided in enclosure (1). I very strongly recommend PROTEUS for award of the Battle Efficiency "E" for Fiscal Year 1986, and for Departmental Awards as discussed in the foregoing subparagraphs.

H. W. HABERMEYER, JR.



DEPARTMENT OF THE NAVY  
NAVAL SEA SUPPORT CENTER, PACIFIC  
POST OFFICE BOX 85548  
SAN DIEGO, CALIFORNIA 92138

IN REPLY REFER TO:

8510.6  
Ser 620/1728  
8 Apr 86

From: Commanding Officer, Naval Sea Support Center, Pacific  
To: Commanding Officer, USS PROTEUS (AS-19)

Subj: TORPEDO MK 48 READY FOR ISSUE (RFI) TORPEDO READINESS  
ASSISTANCE TEAM (TRAT) VISIT

Ref: {a} NAVSEAINST 8510.6  
{b} COMSUBPACINST C8500.1J

Encl: {1} Training/Evaluation conducted 18 - 21 February 1986  
{2} Summary of Observations/Discrepancies  
{3} Logistics Review

1. References {a} and {b} direct NAVSEACENPAC to update, retrain and evaluate Torpedo MK 48 RFI Facility personnel.

2. During the period 18 - 21 February 1986 the NAVSEACENPAC Torpedo Readiness Assistance Team conducted subject TRAT visit. Enclosures {1}, {2} and {3} provide a summary of the evaluation and recommendations of TRAT.

*J. E. King*  
J. E. KING  
By direction

Copy to:  
COMSUBPAC (Code N2)  
COMNAVSEASYS COM (PMS 402, SEA 6322, 63222)  
CO NUSC NPT (Codes 36211, 3614)  
COMNAVLOGPAC (Code 418)  
COMSUBGRU SEVEN  
SPCC (Codes 052, 8533)

1) B2 ALAN!

2) Ann - "E" FOOOOR

*R*  
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01P  
01A

TRAINING EVALUATION CONDUCTED 18 - 21 FEBRUARY 1966

1. A presentation was given to the Weapons Department personnel aboard USS Proteus {AS-19}. The presentation covered the following areas:

- a. Otto Fuel II Safety and First Aid Procedures.
- b. Otto Fuel Vapor Detector MK 15.
- c. Logistics Concepts.
- d. Torpedo Mounted Dispenser {TMD} MK 10.
- e. Torpedo Safety Precautions.

2. The following evolutions were conducted for training and inspection utilizing NAVSEA OP 4024.

- a. Transfer of Torpedo Shape from Barge.
- b. Torpedo Receipt Inspection.
- c. Torpedo Unpacking.
- d. TMD Unpacking and Installation.
- e. Operation of the Otto Fuel Detector MK 15.
- f. Operation of the Air Breathing Apparatus {MSA}.
- g. Otto Fuel II Spill Procedures.
- h. Torpedo Emergency Defueling.

Enclosure {1}

## SUMMARY OF OBSERVATIONS/DISCREPANCIES

### 1. TECHNICAL OPERATIONS

#### a. General Comments:

- {1} The performance and cooperation of the Weapons Department onboard USS PROTEUS was outstanding.
- {2} NAVSEACENPAC has recommended expanding the scope of RFI units to include exploder change out and testing capability.

#### b. Technical Operations:

- {1} A containerized Torpedo MK 48 handling shape was delivered to USS PROTEUS by barge. The receipt inspection, "A" cable installation and command wire splice had to be simulated.
- {2} The Weapons Department personnel displayed a high level of technical ability and situation flexibility in the performance of all Torpedo MK 48 evolutions. No discrepancies were noted.

#### c. Otto Fuel II Drill

- {1} A Torpedo MK 48 fuel leak involving an injured person was simulated during receipt inspection of the handling shape.
  - {a} The response of all members of the Weapons Department and support teams was outstanding. The enthusiasm and performance of all personnel involved should be commended.
  - {b} Construction of the eyewash and deluge shower is complete and ready for use.
- {2} Emergency defueling was demonstrated. All required equipment was available and in working condition.

### 2. TORPEDO MK 48 PUBLICATIONS

- a. NAVSEA OP 4024 is being properly maintained and used.
- b. An outstanding Casualty Response Plan has been developed on USS PROTEUS that provides clear emergency reaction guidelines.

Enclosure {2}

### 3. SITE MATERIAL/EQUIPMENT STATUS

NAVSEACENPAC will follow up on request for redesignation of unused magazines.

### 4. TRAINING

- a. A second Torpedo MK 48 trainer needs to be provided to COMSUBGRU SEVEN for RFI training and inspections. The torpedo handling shape ser. no. 338 is grossly inadequate for TRAT purposes.

ACTION: NAVSEA/NUSC Newport RI/COMNAVLOGPAC

- b. The outstanding training program reflects in a job well done by USS PROTEUS.

### 5. SUMMARY

USS PROTEUS is highly recommended for certification as a Torpedo MK 48 RFI activity.

## LOGISTICS REPORT

1. The following is the logistics portion of the Torpedo Readiness Assistance Team (TRAT) visit in support of the Torpedo MK 48 Ready For Issue (RFI) report for USS PROTEUS (AS-19).

a. A review was made of action items from previous TRATs. Corrective action has been accomplished with the exception of the issue of a new COSAL by SPCC, Mechanicsburg.

ACTION/COMMENT: SPCC message 271231Z Feb 1986 advised that the revised COSAL will be issued in May 1986.

b. A review was made of the handling equipment and other equipment/material required to support the RFI functions. Material is stored in a systematic manner and equipment requiring replacement is on requisition. The following apply:

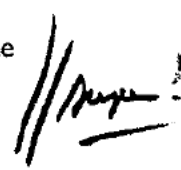
<u>NSN</u>	<u>NOMENCLATURE</u>	<u>U/I</u>	<u>QTY</u>	<u>REQN NO.</u>
1H 4921-00-501-8049	CRIMPING TOOL	EA.	1	R04629-5109-7108
1H 4921-00-501-8049	CRIMPING TOOL	EA.	1	R04629-5336-7101
1H 4926-00-940-8398	SLING MK 114 MOD 0	EA.	1	R04629-5301-7133

ACTION/COMMENT: No problems in replenishing or receipt procedures were noted, which is indicative by the few deficiencies.

c. TRAT was apprised that a requirement exists for increasing RFI activities capabilities to include the installation and check out of Exploders on an emergency basis. The requirement is for an allowance of four (4) each Exploders and for one Exploder Test Set, MK 525 MOD 1.

ACTION/COMMENT: For NUSC, Newport, Code 81132, request that an allowance be established for four (4) each Exploders and for one (1) each Test Set MK 525 MOD 1. If additional data is required the POC is: Mr. G.L. Fergot, NAVSEACENPAC Code 830, A/V: 957-2172. Request advise ALCON of action taken.

d. The obvious preparation by the Weapons Department for the TRAT and the enthusiasm and cooperation during TRAT was appreciated. The overall excellence in the maintenance of all material, ie., publications, Operating Spare Items and handling equipment was noted with pleasure.



ENCLOSURE (3)



DEPARTMENT OF THE NAVY

COMMANDER SUBMARINE FORCE  
UNITED STATES PACIFIC FLEET  
PEARL HARBOR, HI 96860-6550

4400  
5112.8B  
Ser 001642

12 MAR 1986

From: Commander Submarine Force, U. S. Pacific Fleet  
To: Commander, Navy Resale and Services Support Office


Subj: BEST SALES AND SERVICE AWARD NOMINATIONS

Ref: (a) NAVRESSOINST 4067.5 of 23 Oct 84  
(b) NAVRESSO spdltr SSD:LJC:ha (AV)456-2712 of 3 Dec 85

1. In accordance with references (a) and (b), the following COMSUBPAC units are nominated for consideration in the COMNAVSUPSYSCOM sponsored Ship's Stores Best Sales and Service Award:

<u>GROUP</u>	<u>CATAGORY</u>	<u>NOMINEE</u>
II	Large	USS PROTEUS (AS 19)
II	Large	USS DIXON (AS 37)
IV	Small	USS PIGEON (ASR 21)

2. All nominees are considered highly qualified and deserving of this award.

  
K. L. KAUP  
Acting

Copy to:  
COMSUBDEVGRU ONE  
COMSUBRON THREE  
COMSUBGRU SEVEN  
USS DIXON (AS 37)  
USS PROTEUS (AS 19)  
USS PIGEON (ASR 21)

076  
100  
101  
10





DEPARTMENT OF THE NAVY

COMMANDER SUBMARINE FORCE  
UNITED STATES PACIFIC FLEET  
PEARL HARBOR, HI 96860-6550

1650  
111.052  
Ser 000487  
28 JAN 1986

FIRST ENDORSEMENT on CINCPACFLT ltr 1650 Ser 76/435 of 14 Jan 86

From: Commander Submarine Force, U. S. Pacific Fleet  
To: Commanding Officer, USS PROTEUS (AS 19)

Subj: CINCPACFLT GOLDEN ANCHOR AWARD FOR FISCAL YEAR 1985

1. Forwarded, with great pleasure. Your hard work, dedication and overall command involvement with personnel management and retention is of great benefit to the Submarine Force and the Navy. Your sustained excellence in this vital area is evidenced by this fifth consecutive award and reflects great credit upon you and your crew. Well done!

  
J.N. DARBY

Copy to:  
CINCPACFLT  
COMSUBGRU SEVEN



DEPARTMENT OF THE NAVY

COMMANDER IN CHIEF  
UNITED STATES PACIFIC FLEET  
PEARL HARBOR, HAWAII 96850-7000

IN REPLY REFER TO  
1650  
Ser 76/435  
14 JAN 1986

From: Commander in Chief U. S. Pacific Fleet  
To: Commanding Officer, USS PROTEUS (AS 19)  
Via: Commander Submarine Force, U. S. Pacific Fleet

Subj: CINCPACFLT GOLDEN ANCHOR AWARD FOR FISCAL YEAR 1985

1. It is with great pleasure that I award a Golden Anchor for 1985 to USS PROTEUS (AS 19). This award is presented annually as visible recognition to commands for attaining excellence in career motivation programs. It is worthy of note that this is your fifth consecutive award.

2. This Golden Anchor award recognizes your superior command retention program which encompasses the leadership of the entire chain of command of USS PROTEUS (AS 19). The positive career environment and innovative professional development programs instituted in your command are indicative of exceptional professionalism and pride in the Navy. The successes you enjoyed in fiscal year 1985 in both officer and enlisted retention are the product of a strong commitment to the individual needs of each member of your command.

3. You have continued to prove that superior retention is based on genuine concern for meeting your people's personal and professional needs. This concern is evident throughout your command, from its structured programs to the quality service provided during routine day-to-day interactions in offices and personal service facilities. Your fifth award recognizes this concern and the superior leadership needed to make it happen - from the work center supervisor and leading petty officer to the commanding officer. Your efforts to retain quality professionals have significantly contributed to the readiness of the Pacific Fleet. My heartiest congratulations for a job well done.

J. A. LYONS, JR.

*Was Reviewed by C/PF (pro)*

(b) (6)



DEPARTMENT OF THE NAVY

USS PROTEUS AS-19 ✓  
FPO SAN FRANCISCO 96646-2575

5750  
Ser 10/1680  
24 Aug 88

From: Commanding Officer, USS PROTEUS (AS 19)  
To: Director of Naval History (OP-09BH), Washington Navy Yard,  
Washington, DC 29374-0571

Subj: USS PROTEUS (AS 19) COMMAND HISTORY FOR 1987

Ref: (a) OPNAVINST 5750.12D

Encl: (1) Section I, Command Composition and Organization  
(2) Section II, Chronology  
(3) Section III, Narrative  
(4) Section IV, Supporting Documents

1. As required by reference (a), enclosures (1) through (4) are forwarded.

  
P. W. MIDDENTS

## SECTION I

### MISSION, OPERATIONAL EVENTS, AND UPKEEPS

1. Command Mission and Composition. USS PROTEUS (AS 19) is a forward deployed submarine tender homeported in Apra Harbor, Guam. The primary mission of PROTEUS is to provide logistical support to units of the Pacific Submarine Force deployed to the Western Pacific. PROTEUS makes frequent deployments away from her homeport. PROTEUS' crew is comprised of approximately 1050 enlisted men and 52 officers.

### 2. Organizational Structure.

<u>CODE</u>	<u>BILLET</u>	<u>RATE</u>	<u>NAME</u>
00	Commanding Officer	CAPT	Paul W. MIDDENTS
01	Executive Officer	CDR	Robert D. AXTELL
001	Command Master Chief	MMCM/SS	(b) (6)
10	Administrative Assistant	LT	
102	Public Affairs Officer	JOC	
11	Personnel Officer	ENS	
111	Command Career Counselor	NCCS/AW	
12	Chaplain	LT	
13	Senior Watch Officer	LT	
14	Legal Officer	LT	
140	Chief Master-At-Arms	MACS	
15	Drug and Alcohol Program Advisor	TMCN	
17	Safety Officer	LT	
18	3-M Coordinator	ICC/SW	
19	Refit Site Manager	BMCS	
191	Athletic Director/Special Services	EMC	
02	Repair Officer	CDR	
20	Repair Admin Officer (R-0)	CWO3	(b)
21	Production Management Assistant (PMA)	LCDR	
210	Nuclear Repair Officer (R-10)	CWO2	
211	Hull Repair Officer (R-1)	CWO2	
212	Mechanical Repair Officer (R-2)	CWO2	
213	Electrical Repair Officer (R-3)	ENS	
214	Electronics Repair Officer (R-4)	ENS	
216	Repair Services Officer (R-6)	LTJG	
217	Planning and Estimating Officer (R-7)	ENS	
219	Outside Machinery Repair Officer (R-9)	CWO2	
22	RADCON Officer (R-5)	LT	
221	Asst RADCON Officer (R-5)		
23	Repair Quality Assurance (R-8)	LCDR	

Enclosure (1)

03	Operations Officer/Security Manager	LTJG
03B	Top Secret Control Officer	LT
30	Communications Officer	LT
32	CMS Custodian	RMCS
04	Weapons Repair Officer	LT
41	Ordnance Officer (W-1)	LTJG
42	Fire Control Officer/Weight Control/ Weapons Quality Assurance (W-2)	ENS
05	First Lieutenant/Diving Officer	LT
51	Ships Bos'n	CWO2
06	Engineer Officer	LT
61	Damage Control Assistant (DCA)	LTJG
61A	Damage Control Assistant (DCA)	CWO2
62	Electrical Officer	ENS
63	Main Propulsion Assistant (MPA)	CWO2
64	Auxiliary Officer	LTJG
07	Supply Officer	CDR
70	Assistant Supply Officer	LCDR
71	Stores Officer (S-1)	LT
72	Food Service Officer (S-2)	CWO4
73	Sales Officer (S-3)	LTJG
74	Disbursing Officer (S-4)	LTJG
75	Stock Control Officer (S-5)	LCDR
75A	Stock Control Finance	LT
76	SUBSAT Officer (S-6)	LT
77	Data Processing Officer (S-7)	DPC
78	Supply Quality Assurance (S-8)	LT
79	ROV/SS (S-9)	LTJG
08	Undersea Medical Officer	LT
80	Medical Officer	LT
81	Radiation Health Officer	LTJG
09	Dental Officer	CDR
90	Asst Dental Officer	LCDR

(b) (6)

3. Commanding Officer and Biography

a. Commanding Officer: Captain Paul Willby Middents, United States Navy

b. Biography:

Captain Paul W. Middents, USN is a Native of (b) (6), the son of (b) (6).

Upon graduation in 1961 from the University of Dubuque, he was commissioned an Ensign in the United States Naval Reserve under the Reserve Officer Candidate Program. Captain Middents graduated from Michigan State University in 1963 with a Master of Science Degree in Physics, and reported to the Naval Postgraduate School, Monterey, California, as an instructor. He was selected for the Nuclear Power Program in 1964, and upon completion of training reported to the USS GEORGE WASHINGTON (SSBN 598) where he qualified in submarines and served as Navigator. He then served as Navigator in USS JAMES MADISON (SSBN 627) where he participated in the first conversion and successful demonstration of the POSEIDON weapons system. This was followed by assignment to the staff of Commander, Submarine Squadron 18, duty in USS WHALE (SSN 638), service as Executive Officer in USS GEORGE WASHINGTON CARVER (SSBN 656), and command of USS LAFAYETTE (SSBN 616) from December 1977 to August 1980. Captain Middents reported to TRIDENT Training Facility, Bangor, as Commanding Officer in October 1983 after three years in Naples, Italy on the staff of Commander, Submarine Group 8.

Captain Middents has been awarded the Legion of Merit, the Meritorious Service Medal, Navy Commendation Medal with one Gold Star in lieu of the second award, Navy Achievement Medal, and Meritorious Unit Commendation. His campaign and service medals include the Navy Expeditionary Medal, National Defense Service Medal, and Sea Service Deployment Ribbon.

He is married to the former (b) (6), originally of (b) (6). They have two children, (b) (6), a student at the Sorbonne University in Paris, and (b) (6), a student at the University of Massachusetts.

4. Organizational Structure

Commander Submarine Force, U.S. Pacific Fleet, Pearl Harbor, Hawaii  
(COMSUBPAC)

Commander Submarine Group SEVEN, Yokosuka, Japan  
(COMSUBGRU SEVEN)

USS PROTEUS (AS 19)

5. Permanent Duty Station: Apra Harbor, Guam, M.I.

## SECTION II

### CHRONOLOGY

01 Jan - 28 Mar 87	INPT Guam
18 Jan - 8 Feb	SAN FRANCISCO Upkeep
23 Jan - 10 Feb	HADDO Upkeep
2 Feb	Ney Inspection
21 Feb - 6 Mar	LOS ANGELES Upkeep
23 Feb - 27 Feb	MMI/QA/NAVOSH Inspection
11 Mar - 27 Mar	QUEENFISH Upkeep
28 Mar - 2 Apr	ENR Yokosuka
3 Apr - 5 Apr	INPT Yokosuka, Command Inspection
6 Apr - 9 Apr	ENR Chin Hae via Inland Sea
10 Apr - 21 Apr	INPT Chin Hae
10 Apr - 17 Apr	HOUSTON Upkeep
13 Apr - 17 Apr	NAVSEA 08 Audit
16 Apr - 21 Apr	PORTSMOUTH Upkeep
21 Apr - 27 Apr	ENR Guam
28 Apr - 2 May	INPT Guam
2 May - 6 May	OCC/TGT services for MK 48 TCP
2 May - 6 May	DARTER Upkeep
2 May - 6 May	BARBEL Upkeep
2 May - 6 May	FLORIKAN Upkeep
11 May - 15 May	UMI - INSURV
20 May - 2 Jun	HOUSTON Upkeep
30 May - 15 Jun	HONOLULU Upkeep
30 May - 17 Jun	FLORIKAN Upkeep
22 Jun - 26 Jun	SMI
5 Jul - 13 Jul	QUEENFISH Upkeep
14 Jul - 20 Jul	ENR Subic
21 Jul - 31 Jul	INPT Subic
20 Jul - 31 Jul	SSN Upkeep
20 Jul - 31 Jul	SSN Upkeep
22 Jul - 10 Aug	NAVSTA, Subic Availability
24 Jul - 10 Aug	DURHAM (LKA 114) Availability
24 Jul - 10 Aug	FREDERICK (LST 1184) Availability
24 Jul - 10 Aug	GERMANTOWN (LSD 42) Availability
24 Jul - 10 Aug	DULUTH (LPD 6) Availability
24 Jul - 10 Aug	STERETT (CG 31) Availability
31 Jul - 10 Aug	TRIPOLI (LPH 1) Availability
20 Jul - 05 Aug	PORTSMOUTH (SSN 707) Availability
01 Aug - 10 Aug	Inport Subic Bay, RP
01 Aug - 10 Aug	BARBEL (SS 580) Availability
04 Aug - 11 Aug	ST LOUIS (LKA 116) Availability
10 Aug - 12 Aug	U/W en route Hong Kong
13 Aug - 18 Aug	Inport Hong Kong with PORTSMOUTH (SSN 707) alongside

Enclosure (2)

19 Aug - 21 Aug	U/W en route Subic Bay, RP
19 Aug - 22 Aug	Communications Readiness Evaluation
21 Aug - 30 Aug	Inport Subic Bay, RP
23 Aug - 25 Aug	HONOLULU (SSN 718) Availability
24 Aug - 25 Aug	Command Information Security Inspection
26 Aug - 30 Aug	STERETT (CG 31) Availability
26 Aug - 30 Aug	BARBEL (SS 580) Availability
31 Aug - 04 Sep	U/W en route Guam
05 Sep	Inport Guam
07 Sep - 19 Sep	BUFFALO (SSN 715) Availability
07 Sep - 20 Sep	PERMIT (SSN 594) Availability
07 Sep - 26 Oct	SAN JOSE (AFS 7) Availability
01 Oct - 26 Oct	HALEAKALA (AE 2) Availability
12Oct87- 08 Feb 88	NIAGARA FALLS (AFS 3) Availability
12 Oct - 16 Oct	Harpoon Weapons System Training
14 Oct - 02 Nov	WHITE PLAINS (AFS 4) Availability
18 Oct - 21 Oct	U/W Typhoon Evasion
21 Oct	Inport Guam
23 Oct - 31 Dec	BARB (SSN 596) Availability
26 Oct - 28 Oct	Fleet Accounting and Disbursing Center, Pacific (FAADCPAC) Audit
26 Oct - 30 Oct	Semi-Annual External Radiation Health Audit
27 Oct - 28 Oct	MK 48 ADCAP Shape Handling Trials
29 Oct - 30 Oct	Medical Readiness Evaluation (CSG-7)
30 Oct - 14 Nov	GUIBARRO (SSN 665) Availability
30 Oct - 04 Nov	Diving Safety Program Audit (CSG-7)
09 Nov - 13 Nov	Shipboard Explosives Safety Inspection (SESI)
13 Nov - 18 Nov	PERMIT (SSN 594) Availability
23 Nov - 24 Nov	Shipboard Arms, Ammunition and Explosives (AA&E) Physical Security Review (NAVSEASUPCEN PAC)
02Dec87- 31 Dec	FLASHER (SSN 613) Availability
03 Dec - 05 Dec	CAPT K. L. Kaup, COMSUBPAC Chief of Staff, visited
15 Dec - 17 Dec	RADM J. G. Reynolds, COMSUBPAC, visited
19Dec87- 31 Dec	HALEAKALA (AE 25) Availability
19Dec87- 31 Dec	SAN JOSE (AFS 7) Availability
30 Dec	Hosted singer Natalie Cole onbd.



### SECTION III

#### NARRATIVE

1. Retention Statistics. During 1987, 118 of 152 eligible personnel were reenlisted and 31 personnel were ineligible for reenlistment, achieving a net reenlistment rate of 77.6% and a gross reenlistment rate of 64.4%. These figures include two 30-year retirements and five Fleet Reserve transfers. Suspension of the SRB Program during the months of August and September was the prime factor in accomplishing only one reenlistment during this time. Two personnel eligible for reenlistment were discharged during this period. In addition, 82 personnel extended their tour onboard PROTEUS. 1987 retention statistics are:

<u>First Term</u>	<u>No. Elig.</u>	<u>No. Non-Elig.</u>	<u>No. Reen.</u>	<u>Net %</u>	<u>Gross %</u>
Nuclear	3	0	1	33.3	33.3
Non-Nuclear	87	21	63	72.4	58.3
Total	90	21	64	71.1	57.6

<u>Second Term</u>	<u>No. Elig.</u>	<u>No. Non-Elig.</u>	<u>No. Reen.</u>	<u>Net %</u>	<u>Gross %</u>
Nuclear	0	0	0	N/A	N/A
Non-Nuclear	25	8	22	88.0	66.7
Total	25	8	22	88.0	66.7

<u>Third Term</u>	<u>No. Elig.</u>	<u>No. Non-Elig.</u>	<u>No. Reen.</u>	<u>Net %</u>	<u>Gross %</u>
Nuclear	3	1	3	100	75
Non-Nuclear	34	1	29	85.3	82.8
Total	37	2	32	86.5	82.1
Overall	152	31	118	77.6	64.4

2. Operational Performance. USS PROTEUS' primary mission of providing repair services to every class of fast attack submarine and surface ship, whether alongside or by "Tiger Team", has been accomplished in a superb manner. Every tended unit deployed on time in excellent material condition. Laudatory messages and correspondence from tended units have become a trademark of PROTEUS' workmanship. PROTEUS' truly exceptional operational performance has exceeded all established submarine IMA goals.

Enclosure (3)

3. Tactical Readiness (TRE). Although Tactical Readiness is not formally evaluated, PROTEUS' operational effectiveness and readiness, as measured by her ability to provide fleet repair services, are absolutely superb. The ship's accomplishment of six submarine and four surface combatant upkeeps during two deployments to Chinhae, South Korea; the "first ever" upkeeps of forward deployed surface units at Sasebo and Yokosuka, Japan; the reconstruction of an SSN 688 Class submarine's lower rudder blade and the repair of a 637 Class SSN rudder by "Tiger Team" in drydock at Apra Harbor, Guam while PROTEUS was deployed supporting a sub-marine refit, are testimony to PROTEUS' flexibility and responsiveness. More than any other submarine tender in the Pacific Fleet, PROTEUS has demonstrated the full range of capabilities of a mobile repair facility. Whether providing fleet repair services to Navy and Coast Guard units in Guam, deploying to forward sites in South Korea, Japan and the Philippines or dispatching tiger teams throughout the Western Pacific, PROTEUS has set the standards for readiness, operational responsiveness and quality workmanship among Pacific Fleet submarine tenders.

4. Weapons Readiness. The Weapons Repair Department continues to provide outstanding support to the ship's mission. For the second year in a row the annual Torpedo Readiness Assistance Team (TRAT) inspection was completed with outstanding results. Services provided by the Weapons Repair Department have been critical in ensuring the success of numerous submarine upkeeps and special operations.

a. Significant inspections and training evolutions accomplished by the Weapons Repair Department during 1987 include:

- (1) Torpedo Readiness Assistance Team inspection.
- (2) Underway Materiel Inspection.
- (3) Shop Quality Improvement Program training for rigging and weight testing.
- (4) Magazine sprinkler system training by MOTU 13.

b. Ordnance Division (W-1) accomplishments include:

- (1) Participated in the MK 48 Torpedo Certification Program (TCP) and Tactical Readiness Exercise (TRE) for the USS BARBEL and USS DARTER. These were the first such operations conducted in the Western Pacific area.
- (2) Off-loaded one defective MK 48 torpedo from the USS HADDO and returned the torpedo to the Intermediate Maintenance Activity at San Diego, California.
- (3) Off-loaded six MK 48 warshot torpedoes each from USS BARBEL and USS DARTER. Prepared and on-loaded six MK 48 exercise torpedoes for each submarine.

(4) Assisted the USS FLORIKAN in open ocean recovery and handling of 12 MK 48 exercise torpedoes.

(5) Assisted NUSC personnel in performing post run maintenance on 12 MK 48 torpedoes.

(6) Throughout the year conducted a total of 80 MK 48 torpedo handling evolutions. Actions included receipt/transfer inspections, preparation for shipment, and preparation for issue of the following componenets:

- (a) MK 48 warshot torpedoes
- (b) MK 48 exercise torpedoes
- (c) MK 48 training shapes
- (d) MK 10 Torpedo Mounted Dispensers
- (e) MK 6 Control Cables
- (f) Guidance Wire Splices

(7) Conducted Overhead Traveling Bridge Crane operations in support of PROTEUS and tended units as follows:

- (a) 80 MK 48 torpedo transfers
- (b) 30 small arms ammunition transfers
- (c) 78 radio active material (RAM) transfers
- (d) 2,985 general cargo, stores, equipment, and weight test lifts
- (e) Total Crane Lifts: 3,191

(8) Conducted small arms training and qualification for PROTEUS and tended unit personnel as follows:

- (a) 670 personnel on .45 caliber pistol
- (b) 137 personnel on M-14 rifle
- (c) 356 personnel on 12 gauge shotgun
- (d) 32 personnel on 20MM machine gun
- (e) 28 personnel on .50 caliber machine gun
- (f) 28 personnel on M-60 machine gun

(9) Conducted several gunnery exercises while underway sinking various expendable targets. Expended over 10,000 rounds of ammunition during underway training.

c. Fire Control/Weight Test/Quality Assurance Division (W-2) accomplishments included:

(1) Fire Control Repair provided the following repair services to tended units:

(a) Seven MK 117 Fire Control Systems

(b) Two MK 113 Fire Control Systems

(c) One CCS MK 1 System

(d) Three AN/UYK-7 computer systems

(e) Two AN/UYK-2 disk systems

(f) Four MASE units

(2) Maintained PROTEUS' security access list.

(3) Maintained the Weapons Repair Department technical library.

(4) Upgraded information security for the department.

(5) Provided technical assistance and production work for 12 submarines and one fast frigate.

(6) Completed the following weight test for PROTEUS and tended units:

(a) 80 wire ropes and straps

(b) 48 padeyes

(c) 70 chain shots

(d) Five cargo slings and nets

(e) Two accommodation ladders

(f) 71 various pieces of weight handling equipment

(7) Swaging and Wire Rope Shop manufactured 67 wire rope straps and slings.

(8) Quality Assurance personnel provided services for all ordnance handling evolutions, torpedo inspections, ammunition issues, and performed weekly ammunition audits.

5. Material Readiness. PROTEUS has demonstrated an aggressive ability to improve her material readiness. During this year a significant change was promulgated to improve the external preservation of the ship. Divisions were charged with the responsibility for the preservation of the external portions of their spaces. This policy has dramatically improved the appearance of the ship and has increased the pride individual divisions have toward their spaces. A realistic approach to zone inspections with emphasis on the clearing of discrepancies by cognizant divisions has improved the overall material condition and cleanliness of the ship. Efforts to improve rig-for-sea procedures paid off when PROTEUS rode out Typhoon Marge in December 1986. In the face of 80 knot winds with gusts to 100 knots, all topside and internal spaces remained secure. There were no personnel injuries or loss of equipment, even though the ship pitched and rolled heavily during the typhoon. PROTEUS is fully capable of getting underway in any weather and proceeding to any port in support of her mission. The maintenance being done on equipment is excellent as shown by the various inspections being conducted on a weekly basis throughout PROTEUS. Contributing to this excellence is the training being conducted at various levels, paying particular note to the 260 personnel that requalified in 3M, 96 personnel that graduated from 3M Admin Ops and 12 personnel that graduated from 3M Coordinator/Inspector courses. During 1987, there were a total of 55 CASREPS filed with only five remaining outstanding.

6. Supply Readiness. The PROTEUS Supply Department continues to excel in its efforts to provide superior material logistical support to COMSUBPAC deployed submarines, and to the IMA and the other ship's departments. The services divisions, including Disbursing, Food Service, Ship's Store, and ADP, all have made significant contributions towards the high morale and productivity aboard PROTEUS. The Supply Management Inspection (SMI) conducted in June, 1987, established the PROTEUS Supply Department as the standard bearer among COMSUBPAC tenders in awarding four grades of outstanding and five grades of excellent for the nine graded functional areas. Major accomplishments are detailed in paragraph 14.

7. Communications Readiness. PROTEUS' Communications Department provided exceptionally sound communications support to visiting submarines, PROTEUS, COMSUBGRU SEVEN Rep Guam, Submarine Refit Site Guam and COMSUBGRU SEVEN (when aboard) throughout 1987. Additionally, the Communications Department continued to establish new standards of communications performance throughout SEVENTHFLT. PROTEUS has "set the record" for high frequency (HF) performance in SEVENTHFLT. Specific details of communications accomplishments are provided in paragraph 16.

8. Training. PROTEUS' training program is strong and aggressive. Although production and repair requirements for tended units has steadily increased, the effectiveness of training in areas such as 3-M and Damage Control is apparent in divisional PQS reports. The ship's indoctrination course for reporting personnel provides a sharp awareness in areas such as substance abuse, physical security and safety, and this awareness is maintained through monthly lectures. During underway periods, ship handling, general seamanship and underway watch qualifications are stressed with emphasis on:

- Contact Tracking and Reporting
- Piloting, Radar and Visual
- Open Ocean Navigation
- At Sea Damage Control

Drills inport and at sea are frequent and include:

- Radiological Control
- Damage Control
- Man Overboard
- Battle Problems with Live Ordnance Firing

Academic training is encouraged and command supported through the frequent scheduling of functional skill classes and PACE courses. Hazardous material handling procedures and general safety training is conducted regularly via CCTV and stand-up lectures and has contributed to a low number of industrial accidents. Specific training accomplishments during 1987 include:

- 9 officers qualified as Command Duty Officer
- 11 officers qualified as Officer of the Deck
- 3 officers attained Surface Warfare Officer status
- 3 enlisted personnel attained Enlisted Surface Warfare Specialty status
- 61 personnel qualified as Officer of the Deck
- 29 personnel qualified as Junior Officer of the

Underway

Warfare Specialty status

Inport

Watch Underway

- 18 personnel qualified as CIC Watch Officer

Education of all types receives a high level of command interest as evidenced by:

- 14 personnel attended Class "A" school
- 43 personnel attended Class "C" school
- 81 personnel attended Functional Skills Training in high school level Mathematics, English and Reading
- 57 personnel were enrolled in PACE courses
- 59 personnel attended college level off-duty classes
- 67 personnel attended SQUIP training aboard the ship
- 96 personnel completed 3M operation/supervisor courses
- 226 officers and enlisted personnel attended the 36-hour NADSAP course, both as regular training and on a corrective basis
- 256 personnel attended the ship's indoctrination course
- 480 personnel participated in the Navy-wide advancement examinations with a net result of 113 advancements in paygrades E1 through E9, or 23.5%.

9. Morale. Despite a continued high tempo of operations PROTEUS crew morale remains high and disciplinary problems are considered minimal. PROTEUS has continued to maintain a high degree of success in accomplishment of established goals in retention, qualification, education, recreational services and advancement while taking a hard, firm line on disciplinary matters. The PROTEUS Sports and Recreation programs provide a solid platform for good morale and esprit-de-corps. PROTEUS intramural sports programs ranged from cross country running through chess, basketball, softball, volleyball, racquetball, darts, tennis and golf. PROTEUS Varsity Teams participated in the Guam Island wide competitions in all the sports listed above, plus flag football and bowling. Additionally, development of competitive teams in rodeo, martial arts and rugby is being pursued. PROTEUS teams have participated at a varsity level in the South Pacific Sports Conference, Island Wide Invitationals and off-island invitationals in softball on four different occasions. Goodwill sports activities with other navy commands, inter service and civilian nationals while on deployment in Japan, Korea, and the Republic of the Philippines in basketball, softball and soccer, have been vigorously pursued. Recreation while on deployment included 14 different tours in four different countries and Hong

Kong. Perhaps the most significant indicator of the success of PROTEUS' "people programs" is that of the 1,971 urinalysis screenings conducted to date there were only 15 positive results for a net percentage factor of .0076%.

10. Inspections. During 1987, PROTEUS has been evaluated by inspections in the following areas:

<u>Inspector</u>	<u>Type</u>	<u>Date</u>	<u>Evaluation</u>
COMSUBGRU SEVEN	MEDICAL READINESS	Jan 87	Satisfactory
COMSUBPAC	NAVOSH	Feb 87	Satisfactory
NAVSEACENPAC	TRAT	Feb 87	Satisfactory
COMSUBPAC	MMI/QA	Feb 87	Satisfactory
NAVSAFECEN	DIVING SAFETY	Feb 87	Satisfactory
NAVHOSP GUAM	INDUSTRIAL HYGIENE SURVEY	Mar 87	N/A
COMSUBGRU SEVEN	COMMAND INSPECTION	Apr 87	Satisfactory
COMSUBGRU SEVEN	RAD HEALTH AUDIT	Apr 87	Satisfactory
NAVSEA	NAVSEA 08	Apr 87	Satisfactory
BOARD OF INSPECTION AND SURVEY, PACIFIC	INSURV/UMI	May 87	Satisfactory
COMSUBPAC	SMI	Jun 87	Satisfactory
COMSUBGRU SEVEN	COMMUNICATIONS READINESS	Aug 87	Satisfactory
COMSUBGRU SEVEN	COMMAND INFORMATION SECURITY	Aug 87	Satisfactory
FAADPAC	DISBURSING AUDIT	Oct 87	Satisfactory
COMSUBGRU SEVEN	SEMI-ANNUAL EXTERNAL RADIATION HEALTH AUDIT	Oct 87	Satisfactory
NAVSEASUPCEN PAC	SHIPBOARD ARMS, AMMUNITION AND EXPLOSIVES AND PHYSICAL SECURITY INSPECTION	Nov 87	Satisfactory



11. Logistic and Material Support. In additon to the items mentioned in the preceeding paragraphs, the following support was provided:

a. Legal Office Statistics. The Legal Office provided the crew with individual legal assistance as well as providing legal and administrative services for administrative and disciplinary action. Statistics are as follows:

(1) Clients seen	956
(2) Total number of documents prepared:	1552
- Powers of Attorney:	564
- Wills:	03
- Affidavits:	126
- Bills of Sale:	20
- JAG Manual Investigations:	07
- Promissory Notes:	10
- Legal Assistance (correspondence):	450
- Claims:	10
- Other:	60
(3) Captain's Mast:	
- Captain's Mast Cases:	86
- Total Number of cases prepared for Mast	160
(4) Summary Courts-Martial	05
(5) Special Courts-Martial	05
(6) General Courts-Martial	01
(7) Administrative Discharges:	35
- With Administrative Boards:	11
- With no Administrative Boards:	24

b. Naval Reserve Training. During 1987, all Naval Reserve units assigned to PROTEUS performed ACDUTRA on board during inport periods at Apra Harbor, Guam. Unit ACDUTRA periods were:

<u>Unit</u>	<u>ACDUTRA Period</u>
NR AS-19 DET 122 Pocatello, ID	19-30 January 1987
NR AS-19 DET 219 Pomona, CA	7-20 February 1987
NR AS-19 DET 416 Decatur, IL	2-12 March 1987
NR AS-19 DET 311 Dallas, TX	1-14 June 1987

All reservists were rapidly assimilated into mobilization billet divisions to ensure that they worked closely with ship's force during all evolutions, thus enhancing mobilization readiness and morale through intense training and support. Advance planning permitted both the ship and each unit to take maximum advantage of training periods. The reservists played a key role in shipboard evolutions by assisting in preparations for a NAVSEA 08 Radiological Controls Examination and a shipwide Administrative Inspection. Of added benefit was the completion of a Sound Silencing Survey on board a tended submarine conducted solely by reservists. All units had rewarding ACDUTRA periods which provided the opportunity and basis for sustaining unit retention.

12. Public Affairs. PROTEUS' Public Affairs Program has become an integral supporter of command initiatives through the preparation and dissemination of internal and external news releases concerning individual crew members and their activities as well as general interest articles concerning the command as a whole. External media relations, as evidenced in enclosure (2), have served to promote activities and events for, and in cooperation with, the people of communities which have an interest in the command. Noteworthy Public Affairs events during this fiscal year include:

a. Combined Federal Campaign - 100 per cent contact made with personnel assigned to PROTEUS; 699 of 936 personnel contributed \$26,272.00.

b. Navy Relief Fund Drive - 100 per cent contact made with personnel assigned to PROTEUS; 858 of 1072 personnel donated funds for an amount totaling \$20,338.00.

c. PROTEUS personnel were responsible for extensive traffic island repairs to the USO area of Marine Drive in Guam.

d. PROTEUS crew members provided extensive construction work and material item donations to the Chinhae Orphanage.

e. Personnel from PROTEUS' Dental Department conducted a Dental Hygiene presentation to students at Guam's Piti Middle School during Dental Health Awareness Month.

f. Hosted Armed Forces Day island-wide festivities at Polaris Point. Shipboard tours were conducted and Polaris Point was used for area command exhibits.

g. Hosted Guam Boy Scouts of America for their annual summer camp at Polaris Point in June 1987. Approximately 250 scouts and adults participated in the two-week camp.

h. Instituted regular submissions concerning PROTEUS personnel accomplishments to Navy Times and Pacific Crossroads.

i. Responding to an invitation to submit photos to be included in a CINCPACFLT photo collage being established at PACFLT Headquarters, PROTEUS had two photographs of shipboard evolutions selected. CINCPACFLT received more than 300 photographs from various air, submarine, surface and shore commands, and only 20 were chosen to appear in the photo collage project.

j. Hosted a two-day PROTEUS 44th birthday picnic at Polaris Point. Hundreds of sailors, their family members and friends as well as members of the local community and PROTEUS' Sister Village of Piti joined in festivities.

k. PROTEUS' SITE television station was upgraded from a prototype mini-SITE system to the SITE III system. It became operational in late September 1987 with two television channels and reel-to-reel tape players for FM closed circuit radio broadcasts. This doubled the television broadcast capability and added the radio station to the system. In addition, more sophisticated studio television equipment was included. The vector scope and audio cart are scheduled for installation in the summer of 1988 and will bring the studio capacity to full capacity. The greatest benefit of having the upgraded SITE system is our capability to produce live programs to the crew. Damage control drill critiques are regularly broadcast to the entire crew and the shipboard training program has gained added depth.

### 13. Engineering Department

a. PROTEUS' Engineering Department has effectively and efficiently supported all aspects of PROTEUS' operational requirements and commitments. Overall readiness as well as space and equipment material conditions within the department improved steadily throughout 1987. Administrative and material management areas once deemed deficient now reap accolades from superiors.

b. The successful completion of an INSURV/Underway Material Inspection (UMI) revealed that PROTEUS is indeed in superior material condition for a vessel of it's vintage. Open/inspect evolutions revealed no significant main propulsion or auxiliary equipment degradation. This is a direct result of the standards and supervisory attention maintained during equipment operation and system preventive and corrective maintenance.

c. The Engineering Department has continued to play a key role in the logistic support of PROTEUS' tended units. The routine furnishing of shore power, oxygen/nitrogen charging, auxiliary steam, compressed air, sewage holding and transfer, damage control equipment maintenance support, and various other vital services has been expertly accomplished in a traditionally dedicated and professional manner. The Engineering Department's "Can do" spirit in meeting the hotel service needs of PROTEUS' tended units is reflective of a desire to provide the "Fleet with the very best."

(1) Nine individuals qualified as Engineering Officer of the Watch.

(2) Five individuals qualified as Junior Engineering Officer of the Watch.

#### 14. Supply Department

(a) The Supply Department's superb record of achievement encompasses all nine formal functional areas. The primary goal is to provide the most responsive and complete logistical support to the submarines of the Pacific Fleet and to the IMA. In order to realize this goal, the Supply Department has continued to emphasize the importance of training, material condition of spaces, and customer satisfaction. In addition, the solid foundation established during 1986 by implementing policies of accomplishing today's work today and by formalizing daily work procedures into nearly 200 Supply Department Operating Instructions (SDOIs) have resulted in consistently superior and ever-improving measures of supply readiness.

(1) Net supply effectiveness for the year has averaged 92.4 percent - well above the force goal of 85 percent - and still improving over last year's impressive 90.5 percent. Gross supply effectiveness of 76 percent was also above the force goal and another improvement from the prior year.

(2) Unauthorized material on order averaged just 0.25 percent of SAL while unauthorized long supply averaged only 0.86 percent of SAL for the year, both significantly better than the COMSUBPAC Force goals of 2% and 5% of SAL respectively.

(3) Gross monetary adjustments for the year averaged 1.15 percent of throughput - far below the Fleet and Force goal of 3 percent and another significant improvement from last year's results of 4.45%.

(4) The total unmatched receipts as provided by FAADCPAC have been reduced to \$2,270,373 while the net, on board count, has been lowered to \$1,024,313. Overaged unmatched receipts as provided by FAADCPAC, have averaged \$434,298 as compared with the prior year average of \$2,889,673. The net overaged unmatched receipts also declined to an average of \$222,539 from last year's \$969,897.

(5) SUADPS input document error rates have continued to decline from an already enviable rate of 2.9 percent to 2.4 percent, again significantly better than the Force goal of 10%.

(6) Receipt processing of stock receipts for the year has been accomplished in 5.79 calendar days for 90% of receipts and in 7.04 calendar days for 100% of receipts, measured from tailgate to posted on the MRF.

b. June 1987 Supply Management Inspection. In every key area of supply, financial, and inventory management, PROTEUS exceeds the force goal. Significantly, this has been a period of sustained, continuous improvement. The recent SMI results validated PROTEUS as the COMSUBPAC frontrunner among tender supply departments and provided evidence that PROTEUS is continually striving towards even greater standards of excellence. The June 1987 results compared with the prior SMI grades were:

<u>FUNCTIONAL AREA</u>	<u>JUNE 1987</u>	<u>JAN 1986</u>
Organization, Administration & Training	Outstanding	Excellent
Customer Service/SUBSAT	Excellent	Good
Stores and Material Management	Outstanding	Good
Inventory Management	Excellent	Marginal
Financial Management	Excellent	Marginal
Food Service	Excellent	Outstanding
Retail Operations and Services	Outstanding	Outstanding
Disbursing	Outstanding	Outstanding
Automated Data Processing	Excellent	Good

#### 15. Repair Department

a. The cumulative performance of the Repair Department has been superior. PROTEUS continued to support submarine work as well as surface ships, service craft, Coast Guard vessels and shore activities while deployed as well as in Guam. A summary of refits is as follows:

<u>MONTH</u>	<u>MAN-HOURS AVAILABLE</u>	<u>MAN-HOURS EXPENDED</u>	<u>PRODUCTION INDEX</u>
January 87	39,520	38,373	.970
February 87	39,696	37,254	.938
March 87	47,216	39,435	.835
April 87	23,696	23,648	.997
May 87	42,688	38,364	.898
June 87	46,528	43,569	.936
July 87	37,312	32,488	.870
August 87	25,672	29,984	1.160
September 87	40,096	36,452	.948
October 87	44,912	35,473	.880
November 87	40,432	43,797	1.050
December 87	50,080	38,381	.862

b. In addition to upkeeps conducted alongside PROTEUS, tiger teams were deployed to forward sites throughout WESTPAC to accomplish repairs on deployed submarines. These tiger teams accomplished repairs ranging in complexity from lagging repairs and stoning of motor generator commutators and slip rings to replacement of main feed pumps.

c. Some particularly significant items are worthy of special mention:

(1) Repair of USS HONOLULU (SSN 718)'s lower rudder blade. This repair required removal of the damaged portion of the rudder, reconstruction of the rudder, support structures and shell plating and filling the repaired area with syntactic foam.

(2) Construction of a replacement fairwater plane under ice hydraulic piston for USS TUNNY (SSN 682). This repair, identified and completed one day before the ship's scheduled departure, corrected a major material deficiency which restricted employment of the ship's diving system.

(3) Deployed a tiger team to Truk F.S.M. to cut the anchor chain on USS HONOLULU (SSN 718) when a casualty to the ships anchor handling gear made anchor retrieval impossible.

(4) PROTEUS provides additional and unique functions to tended units in WESTPAC:

(a) Arrival inspections are conducted on a submarine's trim and drain systems, fairwater planes, combat communication systems, floating wire antenna, underwater hull, periscopes, masts and antennas to identify additional problems requiring correction.

(b) PROTEUS is the only maintenance activity in the Western Pacific that performs maintenance on nuclear propulsion plants.

(c) PROTEUS contributed significantly toward the AFS phased maintenance program as demonstrated by availabilities on USS SAN JOSE (AFS 7), USS NIAGARA FALLS (AFS 3) and USS WHITE PLAINS (AFS 4). A major availability was also completed on USS HALEAKALA (AE 25).

(d) PROTEUS made major contribution to maintaining the material readiness of USCG BASSWOOD (WLD 388) and USCG CAPE GEORGE (WPB 95306), two Coast Guard vessels homported in Apra Harbor, Guam.

#### 16. Communications Department

a. The communications achievements for this period can be divided into three categories:

(1) Operational

(2) Exercise

(3) Communications Support

b. Operational. The mission of PROTEUS to perform submarine upkeeps in remote ports requires reliable communications connectivity while underway, and while in remote ports. During periods underway communications connectivity was maintained via HF RFCS, HF VFCT and via CUDIXS. The Communications Department excelled in all these communications mediums, but especially while maintaining a HF VFCT termination. Terminations continuity was maintained above 80% during underway periods, and corresponds to a total of 9683 messages being processed via the HF medium. PROTEUS Communications Department was also an active participant in the monthly COMSEVENTHFLT sponsored High Frequency Broadcast Improvement Program (HFIP) which required the ship to maintain the fleet multi-channel broadcast utilizing only HF assets.

During 1987, the Communications Department maintained an average manual intervention rate of 2.8%. This is one of the best manual intervention rates in WESTPAC and is well below the established Navy-wide good of 5%.

PROTEUS' Communications Department processed approximately 140 messages each month via HF primary ship-to-shore and established a SEVENTHFLT record of 417 HF primary ship-to-shore during one 30 day period. This effort well exceeds the COMSEVENTHFLT established goal of 25 messages per month.

PROTEUS' Communications Department performed superbly during a CTF SEVEN FOUR sponsored Tactical Readiness Evaluation (TRE) involving two submarines and a submarine rescue ship. The Communications Department provided realtime tactical communications throughout the TRE.

The Communications Department has further demonstrated its flexibility by becoming the only SUBPAC tender to participate in strategic communications operations. The efforts expended by PROTEUS to fulfill strategic communications requirements have provided valuable technical data in support of TRIDENT operations.

c. Exercise. PROTEUS participated in an alternate broadcast control authority exercise which required the ship to compose and generate one channel of the VLF broadcast while underway. Again, the Communications Department exceeded expectations and demonstrated the ship's capability to operate as an alternate submarine broadcast control authority.

During this period, PROTEUS participated in 24 Exercise ESTEEM/HIGHLYS/BEARD IRON exercises and 17 high Command Responsiveness Tests. The cumulative success rate for these exercises was 98%. In addition, PROTEUS designed and implemented an exercise in tactical deception in support of TYCOM tasking.

d. Support. PROTEUS Communications Department provided communications support not only to Task Force SEVEN FOUR units, but also to other surface ships and shore commands throughout the Western Pacific. Support included: Communications circuit reliability checks, communications guard, Communications Security Material System (CMS), general messages and Armed Forces Courier Service. Additionally, PROTEUS communications spaces were utilized to provide needed communications training to afloat and shore commands in Guam.

e. Summary. The PROTEUS Communications Department provided exemplary communications support to the ship, deployed submarines, COMSUBGRU SEVEN Rep Guam, SUBREFIT Site GQ and COMSUBGRU SEVEN (when attached). The achievements accomplished by the Communications Department during 1987 are particularly noteworthy since the department operates in a manual environment and does not have any quality monitoring equipment. All messages processed in the Communications Center must be manually processed utilizing model 28 teletype equipment.



## 17. Deck Department

a. USS PROTEUS has earned her reputation for outstanding services by providing secure mooring arrangements, precision crane lifts, liberty boat services and picket-boat duties in various Western Pacific ports. PROTEUS spent 160 days deployed in 1987, away from her forward deployed homeport of Apra Harbor, Guam. In addition to tending submarines she tended an ASR for the first time.

b. USS PROTEUS carried out her mission while in Mediterranean Moor and pierside in Apra Harbor, Guam, at anchor in Chinhae, South Korea and Hong Kong, B.C.C. and while pierside in Sasebo and Yokosuka, Japan and Subic Bay, R.P.

c. Some of Deck Department's specific accomplishments during 1987 include:

(1) 28 March 1987 - 27 April 1987. PROTEUS deployed for 29 days to Yokosuka, Japan and Chinhae, South Korea. Again providing round-the-clock liberty services, Deck Department Coxwains made 530 boat runs carrying 11,150 passengers. The crane crews provided 96 man hours for crane services, the majority of which were critical lifts from or over submarines. Submarines were routinely moored without tug services by the use of line throwing guns and five hundred foot mooring lines to capstans. These evolutions were conducted quickly and safely each time.

(2) 2 May 1987 - 5 May 1987. PROTEUS provided "target" services in consort with USS FLORIKAN while conducting torpedo exercises. PROTEUS assisted in recovering exercise torpedos without incident, loss of or damage to any of the exercise torpedos.

(3) 14 July 1987 - 22 September 1987. PROTEUS deployed to Subic Bay, R.P. and Hong Kong, B.C.C. for seventy days. During the first part of this cruise Deck Department supported a COMSUBPAC special project that involved special rigging, deployment and recovery of equipment. During the refit period in Subic, Deck Department recertified both B and A cranes and gravity davits, refurbished the Captain's gig, replaced life-lines and rails and launched an extensive external preservation effort. Constant interfacing with lead shops ensured maximum effort on all jobs picked up by Ship Repair Facility, Subic Bay. Even while in overhaul PROTEUS continued to support tended units and provided 720 hours of picket boat services in support of harbor security.

(4) Deck Department is committed to maintaining a superior state of readiness through an extensive and comprehensive training program. The success of this program is reflected in the high morale that the department is noted for and the low incidence of disciplinary problems. The high morale is further reflected in 100% retention of all eligible personnel for first, second and third term. The deck department is well represented in the intermural sports program.

(5) The material condition of the Deck Department spaces and equipment resulted in no significant or mission degrade items based on the FY 87 INSURV inspection, a remarkable achievement considering the age of the ship and the humid, tropical environment in which the ship operates.

d. The Deck Department contributes in large measure to the PROTEUS' reputation as a "can do" tender. They are known ship-wide as a high spirited group of professional sailors. Deck has the proven ability to bring submarines alongside and provide boat and crane services while moored anywhere in the world.

#### 18. Medical Department

##### a. Logistic and Material Support:

(1) Regular Sickcall Visits:	5,883
(2) Admissions to Ward:	30
(3) Bedrest in Quarters:	106
(4) Laboratory Tests:	6,950
(5) Audiograms:	444
(6) Electrocardiograms:	130
(7) Pharmacy Prescriptions Filled:	6,317
(8) Radiographs Taken:	758
(9) Physical Exams:	370
(10) Additional Services (Surgical, Wart Clinic, Surveillance Exams):	5,150
(11) Immunizations:	2,300
(12) Substance Abuse Evaluations/Counseling:	70
(13) Number of Days in Home Port:	206
(14) Number of Days at Sea:	64
(15) Number of Days in Foreign Ports:	95
(16) RAD Health Audits of Tended Units:	05

(17) RAD Health Training Audit: 01

(18) RAD Health Program Services:

- Lithium Fluoride TLD's Issued: 200

- Film badges Issued: 390

b. Inter-Departmental training is conducted several times a week including daily reviews and critiques of significant cases. Shipwide training is also conducted in accordance with COMSUBPACINST 5400.24 with emphasis on First Aid training, Sanitation and Preventive Medicine. Instruction in CPR is also given to all incoming crewmembers during Indoctrination. Given the aggressive training program in conjunction with safety, no serious or life-threatening injuries were sustained. Medical also enjoyed a 40% reduction in sexually transmitted diseases attributed to aggressive education.

c. A backlog of Occupational Health Programs which developed due to manning deficiencies was overcome by the aggressive efforts of all departmental personnel. In particular, the Hearing Protection Program and surveillance programs for asbestos and other occupational hazards have seen vast improvements. Strenuous annual health record audits and periodic reviews have ensured that the Preventive Medicine and Occupational Health Programs extend to every crewmember.

d. The Medical spaces underwent extensive renovations during which the department was temporarily relocated to the pier. In a well coordinated effort, the move was accomplished with minimal disruption to the medical services provided to the crew and tended units. Upgrading of the Operating Room, Ward and Pharmacy have strengthened the ship's state of medical readiness.

e. An aggressive weight control program incorporating triweekly physical conditioning sessions and regular newsletter articles on nutrition and exercise has greatly improved physical readiness. Of 136 members placed on the Weight Control Program since 1 October 1986, 25% have achieved Navy standards and graduated from the program.

f. Medical Department personnel continue to provide support to the Fleet, other Naval commands and the civilian community. Support in the form of patient care, quality assurance record reviews and Radiation Health audits was provided to 12 tended units and two other ships, as well as augmenting the limited medical facilities while deployed to Chinhae, South Korea. Medical Department personnel were involved in treating casualties of several diving accidents, and assisted in special diving operations for two other ships in addition to PROTEUS. Training in Radiation Health and Diving Medicine was given to Naval Hospital personnel, and CPR instruction was given during off duty hours at the USO.

g. Computer programs have been developed and are being utilized for virtually every program in the Medical Department to provide an accurate, concise, and up-to-date data base.

#### 19. Dental Department

a. PROTEUS' Dental Department has continued to provide high quality comprehensive dental treatment in port, as well as during deployed periods and at sea. A total of 20,612 procedures were documented. Generated by the meticulous screening of incoming personnel and the monitoring of an already effective dental recall program, Dental Combat Readiness of PROTEUS Personnel remains above 80%. The PROTEUS Dental Department achieved 100% Duplicate Dental Panoramic Radiograph status by duplicating and forwarding 1148 radiographs prior to deployment in July 1987.

b. Two surface ships and fifteen submarines were rendered direct dental treatment. An aggressive and thorough Dental Fleet Liaison Program screened all records and ensured maximum attention for any potential dental problems. Fifteen submarines departed at 98% or better Dental Combat Readiness status.

c. PROTEUS' Dental Department, while deployed in Chinhae, South Korea and Hong Kong, voluntarily rendered dental services, which greatly increased active duty dental readiness of the proximate Naval Support Activity personnel. Dependent dental treatment was also provided and well appreciated by spouses of personnel stationed at Fleet Activity, Chinhae, South Korea and Naval Detachment, Hong Kong.

d. Statistical information is as follows:

(1) Dental treatment Procedures: 20,612 including:

- Submarines:	5,971 procedures
- Surface Ships:	310 procedures
- Fleet Activity Chinhae	173 procedures
- Naval Detachment Hong Kong	68 procedures

(2) Dental Combat Readiness of PROTEUS personnel: 86%

(3) Combat Readiness of tended units: 4=98%, 4=99% and 7=100%

20. In summary, USS PROTEUS has continued to demonstrate exceptionally high productivity through superior financial, material, and human resource management. The concern for personal development is obvious throughout the chain of command and provides the foundation for the outstanding esprit de corps, discipline and overall smartness the crew exhibits and is a strong basis for the superb retention program. PROTEUS' outstanding readiness and responsiveness to its submarine and surface ship support mission are continually in evidence. Exceptionally high standards of performance and behavior are reflected in the day-to-day performance of the crew and are well documented in inspection results and in the messages and correspondence received from satisfied customers.